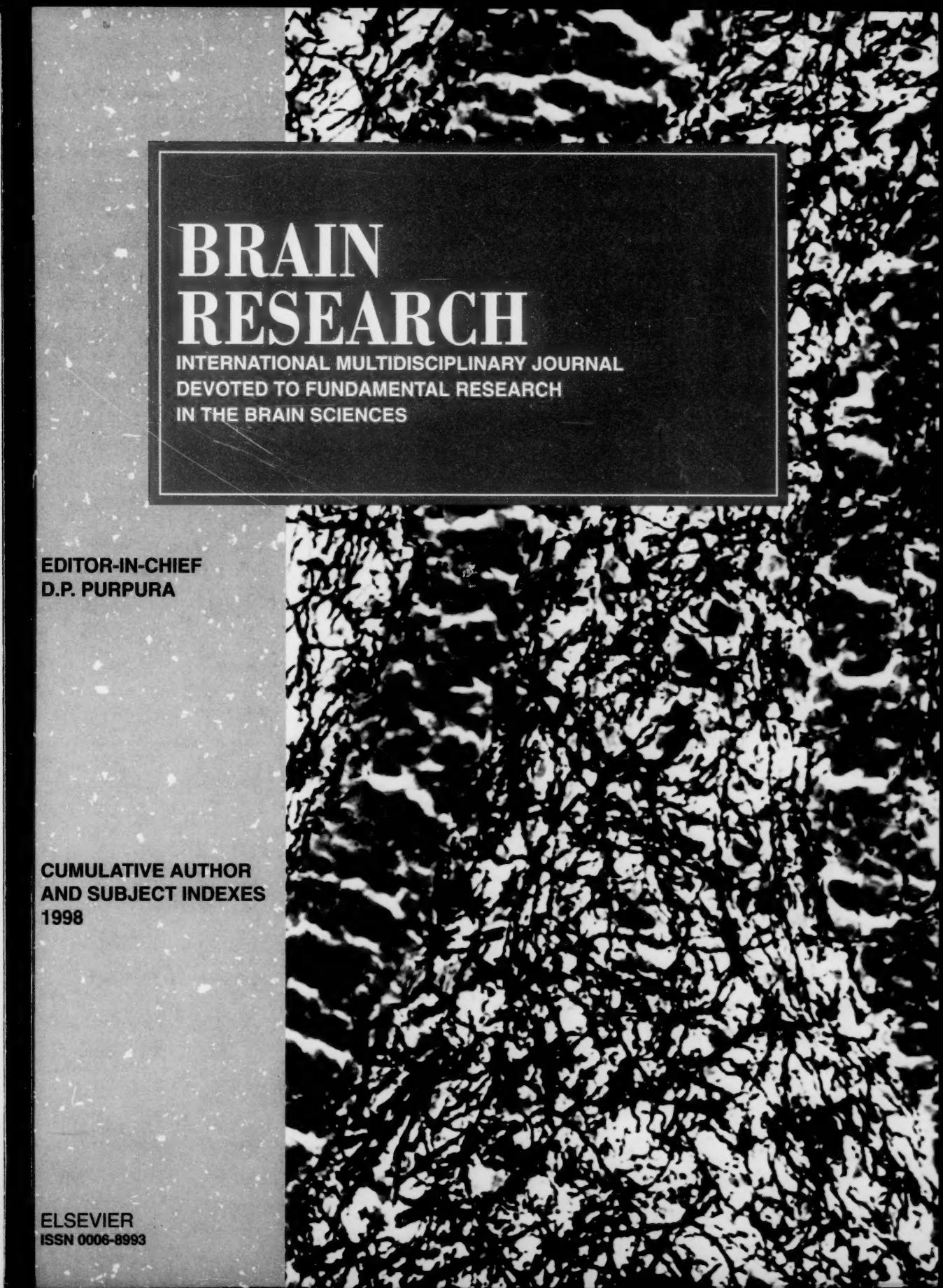

BRAIN RESEARCH

INTERNATIONAL MULTIDISCIPLINARY JOURNAL
DEVOTED TO FUNDAMENTAL RESEARCH
IN THE BRAIN SCIENCES

EDITOR-IN-CHIEF
D.P. PURPURA

CUMULATIVE AUTHOR
AND SUBJECT INDEXES
1998

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AUTHOR AND SUBJECT INDEXES 1998

(including Developmental Brain Research, Molecular Brain Research, Brain Reserch Reviews, Cognitive Brain Research and Brain Research Protocols)

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Brain Research Vols. 851–886 (36 volumes in 72 issues)* weekly	**Molecular Brain Research** Vols. 74–85 (12 volumes in 24 issues) * monthly	**Developmental Brain Research** Vols. 119–125 (7 volumes in 14 issues) monthly	**Brain Research Reviews** Vols. 32–34 (3 volumes in 9 issues)	**Cognitive Brain Research** Vols. 8–9 (1 volume in 4 issues) *	**Brain Research Protocols** Vols. 5 and 6 (2 volumes in 6 issues)

* Please note that Volumes 851 (Issues no. 1 and 2) of **Brain Research,** Volume 74 (Issues no. 1 and 2) of **Molecular Brain Research** and Volume 8 (Issues no. 1, 2 and 3) of **Cognitive Research Protocols** were published ahead of schedule in 1999, in order to reduce publication time. The volumes remain part of the 1999 subscription year.

We apologize for the inconvenience these changes in schedule may cause.

Subscribers to the journal or its sections should note that the section titles are now prefixed with the main journal title in order to facilitate cataloguing. All sections should therefore be indexed under **Brain Research**.

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Please note that the above schedule differs slightly from the actual 1998 publication schedule:

Volumes 51–52 of **Molecular Brain Research** were published in 1997 and have been indexed in the 1997 index. Volume 62 belongs to the 1999 subscription year but was published in 1998 and has been indexed in the present index.

The Editor and Publisher of Brain Research welcome any comments on the usefulness of this index as well as suggestions of improvements.

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Hippocampus; Medial septum; Diagonal band; Handling; Restraint; AMPA; NMDA; γ-Aminobutyric acid; Muscimol; Bicuculline (Moor, E. (789) 1)

Parabrachial nucleus; Rostral ventrolateral medulla; Sympathoexcitatory neuron; Pressor response; Scopolamine (Kubo, T. (789) 23)

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(−) Deprenyl; Primate brain region; MAO-A; MAO-B; Dendritic morphology; CA3 pyramidal neuron (Lakshmana, M.K. (796) 38)

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Dimethyl sulfoxide; Astrocyte; In vitro; Metallothionein; Acidosis; mRNA; Quercetin; Bioflavonoid (Conklin, D.R. (794) 304)

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Adenosine 2a receptors
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Adenosine 3′,5′-cyclic phosphate
Morphine; Opiate dependence; Opiate withdrawal; Opioid receptor; Adenylyl cyclase; G protein (Kaplan, G.B. (788) 104)

Caffeine; Drug tolerance; Abstinence syndrome; Adenosine receptor; G protein; Adenylyl cyclase; Mouse (Leite-Morris, K.A. (804) 52)

Adenosine deaminase
Guinea pig; Rat; Microwave fixation; Complete brain ischemia; Adenosine; Inosine; Hypoxanthine (Kobayashi, T. (787) 211)

Adenosine outflow
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Adenosine; Astrocyte; Stellation; Tyrosine phosphatase; Culture (Abe, K. (804) 63)

Dopamine release; In vivo microdialysis; Methamphetamine; Rat striatum (Gołembiowska, K. (806) 202)

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Adenylate cyclase inhibitor
Forskolin; Arginine vasopressin; Imidazole; Papaverine; Phosphodiesterase activator; Phosphodiesterase inhibitor; Superior cervical ganglion (Hogan, Y.H. (787) 242)

Adenylyl cyclase
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Morphine; Opiate dependence; Opiate withdrawal; Opioid receptor; G protein; Adenosine 3′,5′-cyclic phosphate (Kaplan, G.B. (788) 104)

β-Adrenergic receptor; Aging; Cerebellum; Dexamethasone; Glucocorticoid (Slotkin, T.A. (800) 236)

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Caffeine; Drug tolerance; Abstinence syndrome; Adenosine receptor; G protein; Adenosine 3′,5′-cyclic phosphate; Mouse (Leite-Morris, K.A. (804) 52)

Opioid-receptor; Cannabinoid-receptor; GTP-binding protein; Desensitization; Pertussis toxin (Shapira, M. (806) 26)

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ADP
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Cytosolic Ca^{2+} concentration; Fura-2; Cd^{2+}; Co^{2+}; 1,4,5-IP_3 (Yamagami, K. (798) 316)

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Adrenal corticotropic hormone
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Adrenalectomy
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Alzheimer's disease; Amyloid protein precursor; Glucocorticoid; Hippocampus; Vascular cell (Islam, A. (806) 108)

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Calcitonin; Hippocampus; Frontal cortex; 5-HT1A; Binding; Corticoid (Boujrad, F. (812) 279)

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2-Deoxy-D-glucose; Catecholamine neurons; *c-fos*; Rat; Glucoprivation; Epinephrine; Norepinephrine (Ritter, S. (805) 41)

Adrenal nerve activity
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Adrenergic activity
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α_{2A}-Adrenergic receptor
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β-Adrenergic receptor
Adenylyl cyclase; Aging; Cerebellum; Dexamethasone; Glucocorticoid (Slotkin, T.A. (800) 236)

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External anal sphincter; Electromyographic recording technique; Noradrenergic neuron; Locus coeruleus; Cat; Opioid (Abysique, A. (795) 147)

RVLM; Catecholamine; Pacemaker; Sympathetic nervous system (Piguet, P. (796) 1)

α_2-Adrenoceptor
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α-Adrenoceptor
Arterial blood pressure; Heart rate; Intracerebroventricular; H_2-histamine receptor; 5-HT_{1A} receptor; Imidazoline receptor (Ally, A. (810) 153)

Adrenocorticotropic hormone receptor
G-protein coupled receptor; Leech; Cannabinoid receptor; Melanocortin receptor (Elphick, M.R. (780) 170)

Adrenomedullin
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Adult
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Adult mammalian CNS
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Advanced glycation end product
Dog; Neuron; Cerebellum; Aging; Purkinje cell (Weber, K. (791) 11)

Alzheimer's disease; Oxidative stress; Crosslinking; Hirano body (Münch, G. (796) 307)

AF64A
Acetylcholine; Choline acetyltransferase; Cholinergic neuron; CPP binding; NMDA receptor; Striatum (Ikarashi, Y. (795) 215)

Afferent
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Afferent input
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Afterdischarge
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Ventral subiculum; Hippocampus; Locomotor activity; Nucleus accumbens; *N*-methyl-D-aspartate; Electrical stimulation (Ma, J. (793) 112)

ω-Agatoxin-IVA
Purkinje cell; Voltage-gated Ca^{2+} channel; Ca^{2+} imaging; Patch clamp recording; Ni^{2+} (Watanabe, S. (791) 43)

Age
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Brainstem; In vitro; Newborn rat; Opioid; Respiration; Temperature (Takita, K. (800) 308)

Neuroaxonal dystrophy; Mouse strain (Schmidt, R.E. (806) 141)

Ageing
Clonidine; Central alpha$_2$-adrenoceptor; Pressor response; Conscious rat (Kawasaki, H. (782) 333)

Substance P; NK1 receptor; Spinal cord; Autoradiography (Maguire, C.M. (786) 263)

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Aggregation
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Aggression
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Aggressive behavior
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Aging
Brain slice; Extracellular pH; Hippocampus; Intracellular pH; Intrinsic buffering power; Ion transport; pH Regulation (Roberts Jr., E.L. (779) 271)

Cyclic adenosine monophosphate; 8-bromocyclic adenosine monophosphate; Circadian; Serotonin; Brain slice (Ruby, N.F. (779) 338)

Preganglionic neuron; Cholera toxin; Confocal microscopy; Pregnancy; Pelvic innervation (Dering, M.A. (780) 245)

Apoptosis; Neuron; Development; Western blotting; Immunohistochemistry (Obonai, T. (783) 167)

Autoradiography; Olfactory tubercle; Bed nucleus of the stria terminalis; Caudate–putamen; Ventromedial hypothalamic nucleus; Rat brain (Arsenijevic, Y. (785) 167)

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Estrogen; Choline acetyltransferase; Neurotrophins; trkA; Basal forebrain (Singer, C.A. (789) 343)

Advanced glycation end product; Dog; Neuron; Cerebellum; Purkinje cell (Weber, K. (791) 11)

Nicotinic acetylcholine receptor; Striatum; Ischemia; Polymerase chain reaction (Tohgi, H. (791) 186)

3,4-Dihydroxyphenylacetic acid; 4-Hydroxy-3-methoxyphenylacetic acid; D-amphetamine; Microdialysis; F344BNF$_1$ rat (Yurek, D.M. (791) 246)

Opioid receptor; Spinal cord (Hoskins, D.L. (791) 299)

Brain slice; Dizocilpine; Hippocampus; Hypoxia; Ion transport; Potassium ion homeostasis (Roberts Jr., E.L. (791) 321)

Thyroid hormone; Hormone action; Hyperthyroidism; Hypothyroidism; Cerebral response (Mooradian, A.D. (793) 302)

Adenosine A_{2A}-receptor; Dopamine D_2-receptor; Striatum (Popoli, P. (795) 297)

Dopamine; In vivo electrochemisty; Locomotion; Nigrostriatal; Mesolimbic (Hebert, M.A. (797) 42)

Neurofilament; Electron microscopy; Dorsal column nucleus; Cat (Zhang, J.-H. (797) 333)

Neurosteroid; Nitric oxide; Pregnenolone; Dehydroepiandrosterone; NMDA receptor; Dizocilpine; Learning; Memory; Passive avoidance; Plus-maze (Reddy, D.S. (799) 215)

Adenylyl cyclase; β-Adrenergic receptor; Cerebellum; Dexamethasone; Glucocorticoid (Slotkin, T.A. (800) 236)

Nicotinic acetylcholine receptor; Human brain; Subtype; Regional distribution; [^{3}H]epibatidine; [^{3}H]nicotine (Marutle, A. (801) 143)

Steroid hormone; Neurosteroid; S100; Immunocytochemistry (Legrand, A. (802) 125)

Dog; Tau; Amyloid; Phosphorylation; Neuron; Oligodendrocyte; Plaque (Wegiel, J. (802) 259)

GAP-43; Synaptophysin; Hippocampus; Physical training; Mouse (Chen, Y.C. (806) 238)

Brain-derived neurotrophic factor; trkB; Neurotrophin; Memory (Croll, S.D. (812) 200)

Emission tomography; Serotonin receptor; Partial volume correction (Meltzer, C.C. (813) 167)

Agmatine
Clonidine displacing substance; Imidazoline receptor; Rat; Immunohistochemistry (Otake, K. (787) 1)

Agonistic behavior
Female sexual behavior; Lactation; Lordosis; Maternal behavior; Mesencephalon; Suckling (Lonstein, J.S. (804) 21)

3α-hydroxy-5α-pregnan-20-one sulfate
$GABA_A$ receptor; Sulfated steroids; Pregnenolone sulfate; Chloride ionophore; Neurosteroid (El-Etr, M. (790) 334)

AIDS dementia complex
Inflammation; Tumor necrosis factor-α; Antioxidant; Apoptosis; Memory impairment (Bjugstad, K.B. (795) 349)

AIDS-related dementia
Glucocorticoid; Stress; Striatum; gp120; HIV; Calcium; Neuron death (Iyer, A.M. (808) 305)

Airpuff startle
Acoustic startle; Cardiovascular response; Latency to peak (Palmer, A.A. (787) 91)

Akathisia
Fos; Neuroleptics; β-adrenoceptor antagonist; Propranolol; Extra-pyramidal side effects (Ohashi, K. (802) 134)

Akinesia
Parkinson's disease; Reaction time; Simple reaction time; Choice reaction time; Cerebral evoked potentials; Bradykinesia (Kutukcu, Y. (799) 1)

[D-Ala^2]deltorphin II
DPDPE; Antinociception; DOR-1; mRNA; CXBK mice (Kest, B. (805) 131)

***β*-Alanine**
Nipecotic acid; NNC-711; GABA uptake; Excitatory amino acid receptors (Do Nascimento, J.L.M. (798) 217)

Alcohol
N-methyl-D-aspartate; Whole cell; Patch-clamp; Physical dependence; Tolerance (Grover, C.A. (782) 43)

RO19-4603; Operant responding; Alcohol-preferring (P) rat; Benzodiazepine antagonist; TBPS (June, H.L. (784) 256)

Opioid; Selectively bred rat lines; Enkephalin; Preproenkephalin mRNA; In situ hybridization; Nucleus accumbens (Li, X.-W. (794) 35)

Fetal alcohol effects; Motor learning; Plasticity; Cerebellum (Klintsova, A.Y. (800) 48)

GABA; Ethanol; $GABA_A$ receptor; Rat; Neocortex; Electrophysiology (Soldo, B.L. (800) 187)

Serotonin; Aggression; Lateralization (Wallace Deckel, A. (807) 38)

Alcoholism
Brain; Choroid plexus; Ion transport (Javaheri, S. (812) 91)

Alcohol-preferring (P) rat
RO19-4603; Alcohol; Operant responding; Benzodiazepine antagonist; TBPS (June, H.L. (784) 256)

Aldose reductase
Inflammation; Nerve growth factor; Neurotrophin-3; Oxidative stress; Substance P; *trkA* (Fernyhough, P. (802) 247)

Aldosterone
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Alexander's disease
Rosenthal fiber; 4-Hydroxy-2-nonenal; Immunohistochemistry (Castellani, R.J. (787) 15)

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Alkylating agent
D_2-like receptor; D_3 receptor; Dopamine; EEDQ; 7-OH-DPAT; Fluphenazine; Autoradiography; Accumbens; Islands of Calleja (Yeghiayan, S.K. (792) 324)

Allodynia
Hyperalgesia; Chronic constriction injury; Tumor-necrosis-factor; Interleukin-1; Wallerian degeneration (Sommer, C. (784) 154)

Hyperalgesia; Visible flare; Thermography; Blood flow; Capsaicin (Mohammadian, P. (792) 1)

Chronic neuropathy; Carrageenan-induced inflammation; Hyperalgesia; Spinalization; Nociffensive reflex (Kauppila, T. (797) 234)

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Central pain; Chromaffin cell; Allograft; Quisqualic acid (Brewer, K.L. (798) 83)

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Allograft
Central pain; Chromaffin cell; Allodynia; Quisqualic acid (Brewer, K.L. (798) 83)

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Aging; Estrogen; Progesterone; NGF receptor (Gibbs, R.B. (787) 259)

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Amino acid
Amiloride; 5-(*N*-Ethyl-*N*-isopropyl)-amiloride; Cerebral ischemia; Na^+/H^+ exchange; Glutamate; Acidosis (Phillis, J.W. (812) 297)

Amino acidic neurotransmitter
1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine; Neurotoxicity; Goldfish brain; Catecholamine (Lucchi, R. (782) 105)

γ-Aminobutyric acid
Acetylcholine; Hippocampus; Medial septum; Diagonal band; Handling; Restraint; AMPA; NMDA; Muscimol; Bicuculline (Moor, E. (789) 1)

γ-Aminobutyric acid
Mouse; Met-enkephalin; Acetylcholine; Substance-P; Striatum; Immunodeficiency (Kustova, Y. (793) 119)

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α-Amino-3-hydroxy-5-methyl-4-isoxazolepropionate
Kainate; MK-801; 6,7-Dinitroquinoxaline-2,3-dione; Indomethacin; Temperature (Yanase, T. (798) 304)

α-Amino-3-hydroxy-5-methylisoxazole-4-propionic acid
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L-2-Amino-4-phosphono butyric acid
Metabotropic glutamate receptors; Long-term potentiation; Dentate gyrus; (*RS*)-2-Chloro-5-hydroxyphenylglycine; 1*S*,3*R*-1-Aminocyclopentate-1,3-dicarboxylic acid; (2*S*,3*S*,4*S*)-α-(Carboxy-cyclopropyl)-glycine (O'Leary, D.M. (809) 91)

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D-aspartic acid; Immunohistochemistry; Neuron; Central nervous system; Neurogenesis (Sakai, K. (808) 65)

Amlodipine
Ca^{2+} current; Hippocampal CA1 region; Pyramidal neuron; Nilvadipine; Flunarizine (Ishibashi, H. (813) 121)

Ammonia
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AMPA receptor desensitization
Deactivation; Cyclothiazide; Ampakine; EPSP; Benzamide; Benzoylpiperidine; Benzothiadiazide (Arai, A. (799) 230)

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Dopamine; Exocytosis; Amperometry; Vesicle type; *Planorbis corneus* (Anderson, B.B. (788) 294)

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MDMA; Reserpine; Dopamine; Serotonin; In vivo dialysis; Striatum; Vesicular storage (Sabol, K.E. (806) 69)

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Amygdala
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Male rat; Castration; Dopamine; Amphetamine; Medial preoptic area; Bed nucleus of stria terminalis; Caudate putamen; Microdialysis (Du, J. (782) 11)

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Amyloid
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Alzheimer's disease; Electron paramagnetic resonance (EPR); Free radicals; Lipid peroxidation; Vitamin E (Koppal, T. (786) 270)

Alzheimer's disease; Neuronal culture; GABA immunocytochemistry; Scanning electron microscopy; Image analysis (Pakaski, M. (796) 239)

Iron; Reactive oxygen species; Transition metal; Aluminum (Bondy, S.C. (799) 91)

Tangle; Neurodegeneration; Astrocyte; Membrane protein; In situ hybridization; Immunohistochemistry (Takami, K. (802) 89)

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Amyloid angiopathy
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Amyloid-β
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Amyloid beta peptide
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Amyloid beta protein precursor
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Amyloid β protein
Alzheimer's disease; Amyloid angiopathy; Presenilin-1 (Hayashi, Y. (789) 307)

Laminin; Apolipoprotein E; Alzheimer's disease; Thioflavine-T fluorescence; Electron microscopy (Monji, A. (796) 171)

Amyloid immunohistochemistry
Alzheimer's disease; Olfactory bulb; Acetylcholinesterase; Cholinergic structures (Kovacs, I. (789) 167)

Amyloid P component
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β-Amyloid peptide
Alzheimer's disease; Complement activation; C5b-9; MAC; Complement inhibitor; CD59; Neurodegeneration; Cytotoxicity (Shen, Y. (796) 187)

Amyloid plaque
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Amyloid precursor-like protein
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Amyloid precursor-like proteins; Alzheimer's disease; Immunohistochemistry; In situ hybridization (McNamara, M.J. (804) 45)

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Anaesthetised obex-transected rat
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Blood brain barrier; Bradykinin agonist; Drug delivery; Psychopharmacology; Opiates (Emerich, D.F. (801) 259)

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Androgen receptor
Anabolic–androgenic steroid; Androgen; Cytochrome P450 aromatase (Roselli, C.E. (792) 271)

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AT_{1A}; AT_{1B}; 3-Acetylpyridine; Climbing fiber; Purkinje cell (Jöhren, O. (793) 176)

Angiogenesis
Ischemia; Astroglia; Hypoxia; Vascular endothelial growth factor (Sinor, A.D. (812) 289)

Hypernatremia; Water intake (Starbuck, E.M. (795) 37)

Angiotensin 1–7
Renin; Angiotensin; Vasopressin; Hypothalamic nucleus; Immunocytochemistry; Transgenic rat (Krob, H.A. (798) 36)

Angiotensin
Renin; Vasopressin; Angiotensin 1–7; Hypothalamic nucleus; Immunocytochemistry; Transgenic rat (Krob, H.A. (798) 36)

Angiotensin AT_1 receptor
Nucleus tractus solitarii; Baroreceptor reflex; Angiotensin II; Angiotensin III; Angiotensin AT_2 receptor; Losartan; PD-123319; Amastatin; Rat (Luoh, H.F. (782) 73)

Angiotensin AT_2 receptor
Nucleus tractus solitarii; Baroreceptor reflex; Angiotensin II; Angiotensin III; Angiotensin AT_1 receptor; Losartan; PD-123319; Amastatin; Rat (Luoh, H.F. (782) 73)

Angiotensin I-converting enzyme
Insect; Neurotransmitter; Neuropeptide metabolism; Neuropeptide processing; FX-PRLamide; Locustamyotropin; Pyrokinin; Pheromone biosynthesis activating neuropeptide (Schoofs, L. (785) 215)

Angiotensin II
Pentylenetetrazol kindling; Sarmesin; Adenosine agonists and antagonist (Georgiev, V.P. (779) 259)

Nucleus tractus solitarii; Baroreceptor reflex; Angiotensin III; Angiotensin AT_1 receptor; Angiotensin AT_2 receptor; Losartan; PD-123319; Amastatin; Rat (Luoh, H.F. (782) 73)

Rat; Brain; Basilar artery; Endothelin-1; Arginine vasopressin; Thromboxane; Stroke (Mayhan, W.G. (783) 326)

Furosemide; Sodium depletion; AT-1 and AT-2 receptor subtype; Losartan; PD123319; Aldosterone (Liénard, F. (787) 171)

Angiotensin III
Nucleus tractus solitarii; Baroreceptor reflex; Angiotensin II; Angiotensin AT_1 receptor; Angiotensin AT_2 receptor; Losartan; PD-123319; Amastatin; Rat (Luoh, H.F. (782) 73)

Angiotensin II receptor
Adrenalectomy; AT1; AT2; Oxytocin receptor (Shelat, S.G. (807) 135)

Angiotensin receptors
Medial forebrain bundle; Bed nucleus of the stria terminalis; Presynaptic (Grove, K.L. (809) 5)

Angiotensin type-2 receptor
Glutamate; Cortical neuron; Nitric oxide; Central nervous system (Makino, I. (804) 296)

2,5-Anhydro-D-mannitol
c-Fos; Feeding behavior; Food intake; Hunger; Rat; Metabolism (Horn, C.C. (779) 17)

Animal behavior
Intracerebral hemorrhage; Free radical; Magnetic resonance imaging (Peeling, J. (795) 63)

Animal model
Psychomotor stimulant; Stereotypy; Osmotic pump; Addiction (Dalia, A.D. (797) 29)

Schizophrenia; Ketamine; NMDA; Clozapine; Haloperidol; Limbic system; Hippocampus (Duncan, G.E. (812) 65)

Anion channel
Tamoxifen; Ischemia; Chloride channel; Volume regulation; Cerebroprotection (Phillis, J.W. (780) 352)

Anisomycin
Water maze; Rat; Learning; Hippocampus (Meiri, N. (789) 48)

Anisotropic diffusion
Diffusion tensor; Brain asymmetry; Neural connectivity (Peled, S. (780) 27)

Ankle dorsiflexion
H-reflex; Posture; Reciprocal inhibition; Man (Kasai, T. (792) 159)

Ankle joint
Human; Soleus; H-reflex; Passive movement; Homonymous afferent feedback (Voigt, M. (783) 332)

Anorexia
Nucleus of the solitary tract; Pontine parabrachial nucleus; Area postrema; Emetic drug; GLP-1; Satiety (Thiele, T.E. (801) 164)

Neuropeptide Y; Triglyceride; Free fatty acid; Cachexia; Obese gene product; Leptin receptor (Chance, W.T. (803) 27)

Anti-obesity peptide; NPY; Hypothalamus; Schedule-feeding (Chance, W.T. (803) 39)

Anoxia
Demyelination; Dorsal column; Spinal cord; Spinal cord injury (Imaizumi, T. (779) 292)

Brain slice; Cerebellum; Superior colliculus; Hippocampus; Adenosine; Inosine; Hypoxanthine; ATP (Yamada, T. (787) 220)

Spreading depression; Hypoxia; Input resistance; Glutamate pharmacology; Intrinsic optical signal (Müller, M. (812) 1)

Anoxia / aglycemia
Protein synthesis; NMDA; pH; Acidosis; Calcium (Raley-Susman, K.M. (782) 281)

Anoxic depolarization
Brain slice; Energy metabolism; Hydrogen ion concentration; Hypoxia; Lactate; SNARF; Synaptic transmission (Roberts Jr., E.L. (783) 44)

Ischemia; Oxidative damage; Mitochondria; Spreading depression (Pérez-Pinzón, M.A. (786) 165)

Ca^{2+}; Cerebral ischemia; Gerbil; Hippocampus; Procaine (Chen, J. (792) 16)

Antagonist
Rat; Brain; Cerebral blood flow; Cerebral metabolic rate; Glycine; N-methyl-D-aspartate (Morimoto, Y. (779) 170)

VIP; 2DG; Glucose; Glucagon; Insulin (Chun, S.-J. (809) 165)

Anterior cingulate
Tetrahydrocannabinol; Cerebral blood flow; Positron emission tomography; Cerebral metabolism; Temporal disintegration; Cerebellum (Mathew, R.J. (797) 183)

Anterior pituitary
Galanin; Peptidergic innervation; Monkey (Liu, S. (781) 114)

Corticotropin-releasing hormone; Urocortin; Receptor; ACTH; Proopiomelanocortin (Asaba, K. (806) 95)

Anterograde and retrograde tracing
Macaque monkey; Visual cortex; Inferior parietal lobule; Superior temporal sulcus (Maioli, M.G. (789) 118)

Anterograde / retrograde axonal tracer
Rostral ventrolateral medulla; Reticulospinal neuron; Sympathetic nervous system; Intrareticular circuit; Cardiovascular control (Granata, A.R. (781) 329)

Anterograde tracer
Viscera; Olfaction; Behavior; Motivation; Rat (Ruggiero, D.A. (799) 159)

Lateral hypothalamic area; Zona incerta; Medial septal nucleus; Nucleus of diagonal band; Spinal cord; True-blue; Diamidino yellow; Retrograde tracer; Melanin-concentrating hormone; Neuropeptides (Bittencourt, J.C. (805) 1)

Anterograde tracing
Barrels; Biotinylated dextran amine; Cortical column; Corticostriatal; Neostriatum; Rat; Varicosities (Alloway, K.D. (785) 341)

Retrograde tracing; Cholinergic; Nitric oxide synthase; Tyrosine hydroxylase; CGRP (Sang, Q. (809) 253)

Anterograde transport
Nucleus paragigantocellularis; Noradrenaline; Excitatory amino acid; Arousal (Van Bockstaele, E.J. (784) 123)

Anteroventral cochlear nucleus
Dorsal cochlear nucleus; Muscimol; Frequency tuning; Rat (Paolini, A.G. (785) 309)

Anti-addictive agent
Ibogaine mechanism; Nicotinic acetylcholine receptor; Chromaffin cell; Catecholamine release (Mah, S.J. (797) 173)

Antibody
α7 subunit; Chemoreceptor; Immunocytochemistry; Tyrosine hydroxylase (Shirahata, M. (814) 213)

Antibody microprobe
β-endorphin release; Volume transmission; Arcuate nucleus (MacMillan, S.J.A. (794) 127)

Anticonvulsant
Epileptogenesis; 2*R*,4*R*-APDC; Group II metabotropic glutamate receptor; Glutamate; Kindling (Attwell, P.J.E. (787) 286)

Dihydropyridine; Nimodipine; Calcium channel antagonist; Pentylenetetrazole; Electroshock (Zapater, P. (796) 311)

Kindling; TRH; Protirelin; Epilepsy; Drug delivery (Kubek, M.J. (809) 189)

Electromagnetic field; Epilepsy (Potschka, H. (809) 269)

Anticonvulsants
Hippocampus; Veratridine; Valproic acid; Phenobarbital; Spontaneous bursting; Epilepsy (Otoom, S. (789) 150)

Antidepressant
1-(*m*-Chlorophenyl)-biguanide (mCPBG); ICS205-930; Forced swim test; Rat (Nakagawa, Y. (786) 189)

Methylazoxymethanol; Microencephaly; 5-HT_{2A} receptor; 5-HT_{1A} receptor; Wet-dog shake (Watanabe, M. (787) 333)

Antiepileptic agent
Topiramate; Focal cerebral ischemia; Neuroprotection; Infarct volume; Rat (Yang, Y. (804) 169)

Antiepileptic drug
Topiramate; Glutamatergic transmission; Hippocampal CA3 neuron; Abnormal excitation; Spontaneously epileptic rat (SER) (Hanaya, R. (789) 274)

Self-sustaining status epilepticus; Diazepam; Phenytoin; Refractoriness (Mazarati, A.M. (814) 179)

Antihypertensive drug
Imidazoline receptor; Behavior; Neuron; Glia; Rat; Immunocytochemistry (Ruggiero, D.A. (780) 270)

Anti-ICAM-1
Diffusion; Perfusion; Magnetic resonance imaging (MRI); Focal cerebral ischemia; Rat (Jiang, Q. (788) 191)

Antinociception
Pain; Opioid; Amygdala; Periaqueductal gray; Rostral medulla; Tail flick; Heart rate; Rat; Anesthesia (Helmstetter, F.J. (779) 104)

Morphine; *N*-Methyl-D-aspartate receptor; L-Arginine; MK-801; LY 235959 (Bhargava, H.N. (782) 314)

Neurotensin; Neurotensin receptor; Levocabastine; Hypothermia (Tyler, B.M. (787) 78)

Neurotensin; Neurotensin receptor; Hypothermia (Tyler, B.M. (792) 246)

Intrathecal drug application; Reactive red 2; P_2-Purinoceptor; ATP; Rat thalamus (Driessen, B. (796) 284)

Formalin; Hyperalgesia; Plantar test; Tramadol (Bianchi, M. (797) 163)

Iontophoresis; Substantia gelatinosa; Alpha agonist; Neuron modality (Jones, S.L. (798) 55)

DPDPE; [D-Ala^2]deltorphin II; DOR-1; mRNA; CXBK mice (Kest, B. (805) 131)

Nitric oxide; 60 Hz; ELF magnetic field; Nitric oxide synthase (Kavaliers, M. (809) 50)

c-Fos; Morphine tolerance; Spinal cord; Carrageenin; Dose–response (Le Guen, S. (813) 128)

Ventrolateral orbital cortex; Periaqueductal gray; Jaw-opening reflex; (Rat) (Zhang, S. (813) 359)

Improgan; Tolerance (Bannoura, M.D. (814) 218)

Anti-obesity peptide
Anorexia; NPY; Hypothalamus; Schedule-feeding (Chance, W.T. (803) 39)

Anti-opioid
Neuropeptide FF; Analgesia; Morphine; Tolerance; Mouse (Gelot, A. (808) 166)

Antioxidant
Pergolide; Dopamine agonist; Parkinson's disease; Free radicals; Lipid peroxidation; Scavenging effect; Electron spin resonance (Gómez-Vargas, M. (790) 202)

AIDS dementia complex; Inflammation; Tumor necrosis factor-α; Apoptosis; Memory impairment (Bjugstad, K.B. (795) 349)

GSH; Progesterone; Ovariectomy; Oxidative stress; Estrous (Kume-Kick, J. (803) 105)

Ascorbate; Dopamine; Glutamate; Striatum (Kiyatkin, E.A. (812) 14)

Anti-peptide antibody
Immunohistochemistry; Co-localisation; Central nervous system; Retrograde tracer; Analgesia (Schindler, M. (798) 25)

Antipsychotic action
Fos; Immunohistochemistry; Haloperidol decanoate; Chronic treatment; Limbic (Sun, Y.-J. (791) 125)

Antipsychotic drug
LTP; 5-HT_{2A} receptor; M100907; NMDA receptor (Wang, R.Y. (779) 309)

Antisense
Orphanin FQ; Nociceptin; Analgesia; Oligodeoxynucleotide; KOR-3 (Rossi, G.C. (792) 327)

Allopregnanolone; GABA receptor; α4 Subunit; Rat; PMS (Moran, M.H. (807) 91)

Antisense ODN
Ventromedial hypothalamus; Glutamic acid decarboxylase; GABA; Food intake; Locomotor activity (Bannai, M. (784) 305)

Antisense RNA expression
pMCH; *pMCHL*; Human melanin-concentrating hormone (Miller, C.L. (803) 86)

Anuran
Immunocytochemistry; Double labeling; Gamma-aminobutyric acid (GABA); Enucleation (Gábriel, R. (782) 53)

Anxiety
Neuropeptide Y; Locus coeruleus; Exploration; Elevated plus-maze (Kask, A. (788) 345)

C-type natriuretic peptide; Atrial natriuretic peptide; Rat; Plus maze (Montkowski, A. (792) 358)

Allopregnanolone; Norethisterone; Levonorgestrel; Neuroactive steroid; Burying behavior; Rat (Picazo, O. (796) 45)

Stress; Elevated plus-maze; Metyrapone; Corticosterone; Chloride ion flux; GABA (Calvo, N. (800) 227)

Motor activity; Exploration; Huntington's disease; Benzodiazepine receptor (File, S.E. (805) 234)

Pedunculopontine tegmental nucleus; Diazepam; Delayed non-matching to position; Elevated plus maze; Rat (Leri, F. (807) 187)

Fear; Startle; Conditioned inhibition; Medial geniculate (Heldt, S.A. (813) 274)

Aortic constriction
Calorie restriction; Sympathetic nervous system; Hypothalamus (VanNess, J.M. (792) 237)

Aortic depressor nerve
Barosensitive neuron; Barosensitivity; Coefficient of variation; Firing rate; Skewness; Neurogenic hypertension; Rostral ventrolateral medulla (Han, Y.M.Y. (813) 262)

AP-5
Spontaneous augmented breath; Inspiratory neuron; Excitatory amino acid; NMDA; Non-NMDA; CNQX; Iontophoresis (Takeda, M. (781) 194)

NMDA receptor; Hippocampus; Spatial memory; Radial-arm maze; Open-field; Rat (Kawabe, K. (781) 300)

4-AP
$[Ca^{2+}]_i$; Glomus cell; K^+–O_2 current; Low $[Ca^{2+}]_o$ plus high $[Mg^{2+}]_o$; Membrane potential; Neurosecretion; TEA (Lahiri, S. (794) 162)

Apical dendrite
Delayed neuronal death; Gerbil; DNA fragmentation; Forebrain ischemia (Hara, A. (806) 274)

Apneusis
Respiratory control; Rabbit; Parabrachial nuclear complex; DL-homocysteic acid (Mutolo, D. (807) 182)

apoE
Variant form; Very low density lipoprotein receptor; Human brain; Myelin; β-amyloid (Nakamura, Y. (793) 47)

ApoE-deficient mouse
Spatial memory; Corticosterone; mRNA expression; Restraint stress (Zhou, Y. (788) 151)

Apolipoprotein E
Laminin; Alzheimer's disease; Amyloid-β-protein; Thioflavine-T fluorescence; Electron microscopy (Monji, A. (796) 171)

β-amyloid; Entorhinal cortex; Frontal cortex; Age; Gender (Johnson, J.K. (798) 18)

Apomorphine
Parkinson's disease; 6-Hydroxydopamine; Fixed-ratio discrimination training; Replacement therapy; Striatum; Accumbens; Dopamine; Amphetamine (Van Keuren, K.R. (780) 56)

Prepulse inhibition; (+)-HA-966; Phencyclidine; Haloperidol; Spontaneous locomotor activity (Furuya, Y. (781) 227)

Lesch–Nyhan syndrome; 6-Hydroxydopamine; Fixed ratio discrimination training; Striatum; Dopamine (Stodgell, C.J. (783) 10)

Pavlovian conditioning; Neostriatum; Behavioral sensitization; Microinjection; Habituation; Locomotion (Pinheiro Carrera, M. (790) 60)

Apoptosis
PC12 cell; Nerve growth factor; Calcium; K^+ depolarization (Dispersyn, G. (779) 350)

Cerebral ischemia; ICAM-1 (Soriano, S.G. (780) 337)

ET-18-OCH_3; PAF; Heat shock protein; Astrocyte; DNA fragmentation (Renis, M. (783) 143)

Neuron; Development; Aging; Western blotting; Immunohistochemistry (Obonai, T. (783) 167)

DNQX; Hypoxia; Neuron; Oxidative stress; Trolox (Copin, J.-C. (784) 25)

c-*fos*; hsp70; Brain slices; NMDA; Translation; Transcription; Neonate; Stress proteins; Immediate early genes (Hasegawa, K. (785) 262)

Parkinson's disease; Neurotransplantation; Dopamine neuron; Mesencephalon; Neurotrophic factor (Zawada, W.M. (786) 96)

Delayed neuronal death; Necrosis; Cycloheximide; *Bax*; ICE (Bossenmeyer, C. (787) 107)

3,4-Dihydroxyphenylglycolaldehyde; Mitochondrial permeability transition; Neurotoxin; Alzheimer's disease (Burke, W.J. (787) 328)

α_1-adrenoreceptor; G protein; Transglutaminase; Neuroepithelium (Gill, L.S. (788) 95)

In vitro; Neurotrophin; TGF-β2; IGF; FGF (Oorschot, D.E. (789) 315)

Transient forebrain ischemia; Mechanism; Indomethacin; Cyclooxygenase (Kondo, F. (791) 352)

Cerebellar granule cell; ICE family protease; CPP32; Caspase (Harada, J. (793) 231)

AIDS dementia complex; Inflammation; Tumor necrosis factor-α; Antioxidant; Memory impairment (Bjugstad, K.B. (795) 349)

Neural cell adhesion molecule; Programmed cell death; Cortical neuron (Azizeh, B.Y. (796) 20)

Hypoxia; Neuron; Death; Gene; p53 (Banasiak, K.J. (797) 295)

Neurodegeneration; Corticosteroid; Growth factor (Islam, A. (797) 342)

Lipopolysaccharide; Brain; Fever (Mouihate, A. (805) 95)

Matrigel; GDNF; bFGF; IGF-I; Growth factors; Methamphetamine (Clarkson, E.D. (806) 60)

Capsaicin; Nerve injury; Primary neuron; Trigeminal ganglion; Nerve growth factor (Sugimoto, T. (807) 147)

3-Nitropropionic acid; Mitochondria; Huntington's disease; *bcl*-2; *bcl*-*x*; c-*jun* (Sato, S. (808) 56)

Parkinson's disease; Mitochondrial permeability transition; Cyclosporin A; Mitochondrial membrane permeability (Seaton, T.A. (809) 12)

Cerebellar granule cell; Purinoceptor; Adenosine; ADP (Vitolo, O.V. (809) 297)

Seizure; Kainate; Status epilepticus; Transgenic; In situ nick translation; Neuronal injury; Heat shock protein; Neuronal stress (Hu, R.Q. (810) 229)

Cyclosporin; Aristolochic acid; Mitochondrial transition pore (Fall, C.P. (811) 143)

Apparent motion
Human; Motion perception; Reaction time; Visual system (Kaneoke, Y. (790) 195)

Appetite regulation
Human hypothalamus; Obesity; Y1 receptor; Y2 receptor; Y5 receptor; mRNA Analysis; Radioligand binding (Statnick, M.A. (810) 16)

Appetitive stimulus
Spaced training; Massed training; Associative learning; Classical conditioning; Aversive stimulus; Gastropod (Kojima, S. (808) 113)

Applied current
Epileptiform activity; Suppression; Low Ca^{2+}; Hippocampus; In vitro (Warren, R.J. (806) 186)

APTRA
Dentate gyrus; Ischemia; Inhibition; Hippocampus; Chelator (Spigelman, I. (810) 269)

Arachidonic acid
Mild hypothermia; Delayed neuronal death (Kubota, M. (779) 297)

K^+ channel; Ca^{2+} channel; Carotid body; Hypoxia; Chemotransduction (Hatton, C.J. (787) 315)

Excitotoxicity; Phospholipase A_2; Cyclooxygenase-2; Reactive astrocyte; Glial scar; Hippocampus (Sandhya, T.L. (788) 223)

Autoradiography; Basal ganglia; Brain metabolism; Fatty acid; Functional brain imaging; 6-Hydroxydopamine; Parkinson's disease; Phospholipase A_2 (Hayakawa, T. (807) 177)

cPLA2; Muscarinic receptor; Signal transduction; Oligodendrocyte; Glia (Lautens, L.L. (809) 18)

Rapid-eye movement (REM) sleep; Pain; Locomotor activity (Murillo-Rodríguez, E. (812) 270)

Arachidonylethanolamide
FOS; Immunocytochemistry; Marijuana; Cannabinoid receptor (Patel, N.A. (797) 225)

Arachnoid membrane
ICAM-1; Choroid plexus; Dural sinus; Immuno-SEM (Endo, H. (793) 297)

Arcuate nucleus
Devazepide; Central nucleus of the amygdala; Paraventricular nucleus of the hypothalamus; Nucleus of the solitary tract; Fasting (Wang, L. (791) 157)

β-endorphin release; Antibody microprobe; Volume transmission (MacMillan, S.J.A. (794) 127)

Hypothalamus; Paraventricular nucleus; Adiposity; Eating behavior; Insulin (Wang, J. (802) 75)

Neuroendocrine regulation; Hypothalamus; Prolactin receptor; Dopaminergic neuron; Estradiol; Progesterone; Periventricular nucleus (Lerant, A. (802) 141)

Paraventricular nucleus; Median eminence; *Phaseolus vulgaris* leucoagglutinin; Rat (Tóth, Z.E. (802) 294)

Palatable diet; Food restriction; NPY mRNA; Rat (Kim, E.-M. (806) 117)

Obesity; Fos; Diet-resistance; Paraventricular nucleus; Ventromedial nucleus; Dorsomedial nucleus (Levin, B.E. (808) 317)

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Area postrema
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Nucleus of the solitary tract; Pontine parabrachial nucleus; Emetic drug; GLP-1; Satiety; Anorexia (Thiele, T.E. (801) 164)

Area prerubralis parafascicularis
Ventrolateral outgrowth; GABA; Compensatory eye movement (Toonen, M. (802) 267)

A_1 receptor
Adenosine; Dorsal vagal complex; Nodose ganglion; Hypertension (Krstew, E. (802) 61)

A2 receptors
Kainate; Excitotoxicity; Hippocampus; CGS21680; ZM241385; Adenosine; Purines (Jones, P.A. (800) 328)

ARG
Nitric oxide; Theta rhythm amplitude; NMMA; Septum; Hippocampus; Urethane-anesthetized rat (Monmaur, P. (787) 165)

L-Arginine
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Morphine; Antinociception; *N*-Methyl-D-aspartate receptor; MK-801; LY 235959 (Bhargava, H.N. (782) 314)

Arginine vasopressin
Rat; Brain; Basilar artery; Angiotensin II; Endothelin-1; Thromboxane; Stroke (Mayhan, W.G. (783) 326)

Forskolin; Imidazole; Papaverine; Adenylate cyclase inhibitor; Phosphodiesterase activator; Phosphodiesterase inhibitor; Superior cervical ganglion (Hogan, Y.H. (787) 242)

Suprachiasmatic nucleus; Melatonin; Circadian rhythm (Watanabe, K. (801) 216)

Arg–vasopressin
Corticosterone; Suprachiasmatic nucleus; Circadian rhythm; Locomotor activity (Isobe, Y. (800) 78)

Argyrophilic grains
Alzheimer disease; Axonal transport; Image analysis; Neurofibrillary tangles; Neuropil threads (Velasco, M.E. (813) 329)

Aristolochic acid
Apoptosis; Cyclosporin; Mitochondrial transition pore (Fall, C.P. (811) 143)

Arm–trunk coordination
Reaching; Synergies; Redundancy problem; Vision; Vector coding of motion (Pigeon, P. (802) 274)

Aromatase
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Estrogen synthetase; Preoptic area; Medial basal hypothalamus; Amygdala; Cytochrome *P*450; CYP19 (Roselli, C.E. (811) 105)

Aromatic L-amino acid decarboxylase
NMDA antagonists; Clonidine; Atropine (Fisher, A. (792) 126)

Human; Substantia nigra; Ventral tegmental area; Tyrosine hydroxylase; Dopamine; Immunohistochemistry (Ikemoto, K. (805) 255)

Arousal
Nucleus paragigantocellularis; Anterograde transport; Noradrenaline; Excitatory amino acid (Van Bockstaele, E.J. (784) 123)

c-*fos*; Immediate early gene; Raphe nuclei; Supramammillary region; Hypothalamus; Hippocampus; Stress; Double labeling (Wirtshafter, D. (789) 331)

Sleep; Hypothalamus; Preoptic area; Electroencephalogram; Sleep deprivation (Szymusiak, R. (803) 178)

Rat; Open field; Exploration; In vivo microdialysis; Acetylcholine; Reinforcement; Learning; Novelty; Attention; Aversion (Thiel, C.M. (812) 121)

A 68930 ((1*R*,3*S*)-1-aminoethyl-5,6-dihydroxy-3-phenylisochroman HCl)
Dopamine; Dopamine receptor; 7-OH-DPAT ((±) 7-hydroxy-2-(di-*n*-propylamino)tetralin HBr); Thermoregulation; Locomotor activity; Rat (Salmi, P. (781) 188)

Arterial blood pressure
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Acetylcholine; Carotid body; Carotid (sinus) nerve; Petrosal ganglion; Sensory ganglion (Alcayaga, J. (786) 47)

Arteriole
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Arvicanthis niloticus
Immediate–early gene; Diurnal; Suprachiasmatic nucleus; Fos; Rhythm (Katona, C. (791) 27)

Arylalkylamine *N*-acetyltransferase
Teleost; Pineal; Melatonin; Protein synthesis; Circadian oscillator (Falcón, J. (797) 109)

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Ascending tract
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Ascorbate
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Ascorbic acid
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Aspartate
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Glutamate; Formalin test; Periphery; Pain; Inflammation (Omote, K. (787) 161)

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Aspartic and glutamic acid
Eating behavior; Nitroprusside; Nucleus accumbens; Rat (Monda, M. (808) 129)

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Asphyxia
Allopurinol; *N*-methyl-D-aspartate receptor; Brain; Lipid peroxidation; Na^+,K^+-ATPase activity (Marro, P.J. (787) 71)

Assembled tau filaments
Ultrastructure; Paired helical filaments; Scanning transmission electron microscopy; Mass density; Neurodegenerative disorders (Ksiezak-Reding, H. (814) 86)

Associative learning
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Spaced training; Massed training; Classical conditioning; Appetitive stimulus; Aversive stimulus; Gastropod (Kojima, S. (808) 113)

Associative memory
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Caveolae; Caveolin; Brain (Ikezu, T. (804) 177)

Rat; Cell swelling; Methylmercury; Na^+; K^+; In vitro (Aschner, M. (813) 254)

Bergmann glia; Heat shock protein; Macrophage; Mannitol; Microglia (Richmon, J.D. (780) 108)

S100β; Neurotrophic factor; Synaptic plasticity; NAN-190; Hippocampal formation; Electron microscopy (Wilson, C.C. (782) 235)

GABA transporter; GAD-65; GAD-67; Enucleation; Neuroplasticity; Neuron-glia interaction (Yan, X.-X. (783) 63)

ET-18-OCH_3; PAF; Heat shock protein; Apoptosis; DNA fragmentation (Renis, M. (783) 143)

Adenylyl cyclase; Cyclic AMP; Desensitization; 5-Hydroxytryptamine; 5-HT_7 receptor; Frontal cortex; Neuron (Shimizu, M. (784) 57)

Beta amyloid; Interleukin-1; Nitric oxide synthase; Alzheimer's disease (Hu, J. (785) 195)

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Acidosis; Dimethyl sulfoxide; In vitro; Metallothionein; Acidosis; mRNA; Quercetin; Bioflavonoid (Conklin, D.R. (794) 304)

Laminin; Cerebellar culture; Granuloprival culture; Purkinje cell; Dendritic spine; Dendrite; Neurite promoting factor; Synapse; Development; Regeneration (Seil, F.J. (795) 112)

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LIF; EGF; gp130; Hippocampus (Gadient, R.A. (798) 140)

Cell swelling; Methylmercury; Sodium; Potassium; Aspartate; Amiloride; In vitro (Aschner, M. (799) 207)

Ependymal cell; Ischemia; Middle cerebral artery occlusion; Neuron; Tumor necrosis factor-alpha (Gong, C. (801) 1)

Amyloid; Tangle; Neurodegeneration; Membrane protein; In situ hybridization; Immunohistochemistry (Takami, K. (802) 89)

Mycoplasma fermentans; MfGL-II; Choline-containing-glycolipid; Nitric oxide; Prostaglandin E_2; Protein kinase C; Inflammation; Lactate production (Ben-Menachem, G. (803) 34)

Gliosis; Cell culture; Neuroglia; Cytokine; CNTF (Levison, S.W. (803) 189)

Adenosine; Stellation; Adenosine receptor; Tyrosine phosphatase; Culture (Abe, K. (804) 63)

Microglia; Sciatic nerve axotomy; Glial fibrillary acidic protein (Gilmore, S.A. (806) 113)

Motoneuron; Excitotoxicity; Kainate; Differentiation; Culture; Mouse (Vandenberghe, W. (807) 1)

Spreading depression; Ischemia; BDNF; bFGF; Preconditioning (Matsushima, K. (807) 47)

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Kainic acid; Tanycyte; In situ hybridization; Immunocytochemistry; c-*fos* (Eyigor, O. (814) 231)

Astrocyte proliferation
Brain injury; Gamma irradiation; Autoradiography; Immunocytochemistry; GFAP; S-100β protein; Developing rat (Setkowicz, Z. (803) 122)

Astroglia
Adenosine; Purinergic receptor; Ca^{2+} (Pilitsis, J.G. (798) 294)

Brain lesion; GFAP; Bergmann-glia; Reactive gliosis (Ajtai, B.M. (802) 285)

Ischemia; Angiogenesis; Hypoxia; Vascular endothelial growth factor (Sinor, A.D. (812) 289)

Astrogliosis
Sprouting; S100B; Neurotropic factor; Axon growth; Glial-released protein; Hippocampus (McAdory, B.S. (813) 211)

α 7 subunit
Antibody; Chemoreceptor; Immunocytochemistry; Tyrosine hydroxylase (Shirahata, M. (814) 213)

AT_{1A}
Ang II receptor subtype; AT_{1B}; 3-Acetylpyridine; Climbing fiber; Purkinje cell (Jöhren, O. (793) 176)

AT_{1B}
Ang II receptor subtype; AT_{1A}; 3-Acetylpyridine; Climbing fiber; Purkinje cell (Jöhren, O. (793) 176)

AT1
Adrenalectomy; Angiotensin II receptor; AT2; Oxytocin receptor (Shelat, S.G. (807) 135)

AT2
Adrenalectomy; Angiotensin II receptor; AT1; Oxytocin receptor (Shelat, S.G. (807) 135)

AT_1 and AT_2 receptors
Fos; Egr-1; Intracerebroventricular renin; Captopril; SFO (Xu, Z. (782) 24)

AT-1 and AT-2 receptor subtype
Furosemide; Sodium depletion; Angiotensin II; Losartan; PD123319; Aldosterone (Liénard, F. (787) 171)

Ataxia
Cerebellar mutant mice; D-cycloserine; D-serine ethylester; Glycine-binding site; Open field study (Saigoh, K. (808) 42)

Atonia
REM sleep; Glutamate; Nucleus magnocellularis of medulla; Nucleus paramedianus of medulla; Pontine inhibitory area; In vivo microdialysis (Kodama, T. (780) 178)

ATP
Brain slice; Cerebellum; Superior colliculus; Hippocampus; Anoxia; Adenosine; Inosine; Hypoxanthine (Yamada, T. (787) 220)

Ecto-apyrase; CD39 (Wang, T.-F. (790) 318)

Antinociception; Intrathecal drug application; Reactive red 2; P_2-Purinoceptor; Rat thalamus (Driessen, B. (796) 284)

Hypothalamus; Preoptic area; Slice system; Tamoxifen; Fluphenazine (Gray, J.M. (798) 223)

Phosphorylation; Patch clamp; Ion channel (Ren, J. (811) 71)

P2X receptor; Purinoceptor; Hypothalamus; Brain; Central nervous system (Xiang, Z. (813) 390)

K-ATP
Glucose; Memory; Galanin; Rat; Spontaneous alternation (Stefani, M.R. (813) 50)

ATP-inhibited K^+ channel
Membrane potential; Tolbutamide; Cromakalim; HOE 234; Metabolic inhibition (Frey, G. (798) 247)

ATP receptor
Glutamate receptor; Optical recording; Pain; Primary afferent fiber; Voltage-sensitive dye (Ikeda, H. (812) 81)

AT-1 receptor
Autonomic; Endocrine; Olivocerebellar system (Benarroch, E.E. (812) 292)

Atrial natriuretic peptide
C-type natriuretic peptide; Anxiety; Rat; Plus maze (Montkowski, A. (792) 358)

Atrophy
Alzheimer disease; Hippocampus; Neuronal loss; Clinicopathological correlations; Stereology (Bobinski, M. (805) 267)

Atropine
Aromatic L-amino acid decarboxylase; NMDA antagonists; Clonidine (Fisher, A. (792) 126)

AtT 20 cell
Dynorphin; Non-opioid binding site; ACTH (Yarygin, K.N. (791) 99)

Attention
Event-related potential; Hippocampus; Neocortex; Amygdala; Nucleus accumbens; N1; P2; Reward (Ehlers, C.L. (780) 138)

Norepinephrine; Learning; Locus coeruleus; Cerebellum; Hippocampus (Gould, T.J. (780) 174)

GABA-A receptor; Benzodiazepine; Spatial memory; Learning and microinjection (Mao, J.-B. (784) 139)

Frontal cortex; Striatum; AMPA; Kainate; NMDA; Basal ganglia; Fos (Schuller, J.J. (788) 315)

Interleukin-1; Interleukin-2; Interleukin-6; Exploration; Schizophrenia (Zalcman, S. (811) 111)

Rat; Open field; Exploration; In vivo microdialysis; Acetylcholine; Reinforcement; Learning; Novelty; Arousal; Aversion (Thiel, C.M. (812) 121)

Audiogenic seizures
Inferior colliculus; Neuron; Ethanol withdrawal; Convulsion (Chakravarty, D.N. (783) 102)

Auditory
Superior colliculus; Inferior colliculus; Ageing; Sound localization (Ingham, N.J. (788) 60)

Somatosensory; Gating; Human; Visual (Staines, W.R. (801) 125)

Event-related potential; Mismatch negativity; Perception; Frequency; Cortex; Lesion; Sensory memory; Hemispace (Alain, C. (812) 23)

Speech; Language; Magnetoencephalography; Lateralization; Temporal processing; Cognitive neuroscience (Gage, N. (814) 236)

Auditory brainstem response
Calcium-binding protein; Cochlear nucleus; Quantification; Noise; Immunocytochemistry (Idrizbegovic, E. (800) 86)

Auditory cortex
Caudate–putamen; Cholinergic; EEG; Globus pallidus; Receptive field; Response suppression (Chernyshev, B.V. (793) 79)

Middle-latency auditory evoked potential; Gerbil; Transient cerebral ischemia; Neuronal death (Ichiki, H. (806) 278)

Auditory function
Hearing; Primary sensory pathway; Subcerebellar nuclei; Learning and memory: systems and functions (Woody, C.D. (789) 74)

Auditory sensory memory
Mismatch negativity; Selective attention; Auditory stream segregation; Event-related potential (Sussman, E. (789) 130)

Auditory stimulation
Chronoamperometry; Caudate nucleus; Rat; Reaction-time task; Monoamine; Dopamine; Phasic response (Shinba, T. (781) 284)

Auditory stream segregation
Mismatch negativity; Selective attention; Event-related potential; Auditory sensory memory (Sussman, E. (789) 130)

Auditory system
Deafferentation; Nucleus magnocellularis; Cell death; Cochlear nucleus; Ribosome (Hyson, R.L. (809) 214)

Auditory-visual integration
Sound localization; Optic tectum; Superior colliculus; Pigeon (Lewald, J. (790) 339)

Autism
Human influenza virus; Second trimester of pregnancy; Mice; Hippocampus; SNAP-25; Schizophrenia (Fatemi, S.H. (800) 1)

Autonomic
Neuroanatomy; Spinal cord; Parasympathetic; Pontine micturition center (Nuding, S.C. (785) 185)

Nerve growth factor; Sympathetic; Micturition; Bladder smooth muscle; Hypertension (Spitsbergen, J.M. (790) 151)

Reperfusion; Heart; Ischemia; Afferent; Cardiac pain; Reflex (Gutterman, D.D. (790) 293)

Cytokine; Nodose ganglia; Immune-to-brain communication; Immediate-early gene; Immunohistochemistry (Goehler, L.E. (804) 306)

AT-1 receptor; Endocrine; Olivocerebellar system (Benarroch, E.E. (812) 292)

Autonomic nervous system
Cardiovascular regulation; Emotion; Defense reaction; Pain; Periaqueductal gray matter; Precommissural nucleus; Pseudorabies virus; Stellate ganglion (Jansen, A.S.P. (784) 329)

Fever; Herpes virus; Hypothalamus; Medulla oblongata; Oxytocin; Paraventricular hypothalamic nucleus; Periaqueductal gray matter; Preoptic region; Pseudorabies virus; Raphe magnus; Sympathetic nervous system; Temperature regulation; Viral transneuronal tracing (Smith, J.E. (786) 153)

Denervation; Plasticity (Smith, P.G. (786) 171)

Cardiac function; Defense reaction; Emotion; Fight-or-flight response; Lateral hypothalamic area; Paraventricular hypothalamic nucleus; Periaqueductal gray matter; Precommissural nucleus; Pseudorabies virus; Raphe magnus nucleus (Farkas, E. (792) 179)

Nucleus accumbens; Shell and core of nucleus accumbens; Efferent projection; Biotinylated dextran amine; Ventral striatum (Usuda, I. (797) 73)

Autonomic regulation
Nociception; Brainstem (Armstrong, C.L. (785) 49)

Autoradiography
8-OH-DPAT; 5-Hydroxytryptamine$_{1A}$; Serotonin receptor; Hypothermia; Selective breeding; Cortex (Knapp, D.J. (782) 1)

Brain capillary; Chronic nicotine; Local cerebral glucose utilization; Immunostaining (Duelli, R. (782) 36)

Hypothermia; Protein kinase C; Phorbol 12,13-dibutyrate; Cerebral ischemia; Middle cerebral artery occlusion; Rat (Tohyama, Y. (782) 348)

Aging; Olfactory tubercle; Bed nucleus of the stria terminalis; Caudate–putamen; Ventromedial hypothalamic nucleus; Rat brain (Arsenijevic, Y. (785) 167)

Substance P; NK1 receptor; Ageing; Spinal cord (Maguire, C.M. (786) 263)

Autoregulation; Hypothermia; Awake rat; Cerebral blood flow (Niwa, K. (789) 68)

Carbachol; Cholinergic system; Galanin; Substantia innominata; Cerebral blood flow (Barbelivien, A. (789) 92)

Postnatal development; [^{3}H]kainate binding; Barrel cortex; Mouse (Jabłońska, B. (791) 325)

Alkylating agent; D_2-like receptor; D_3 receptor; Dopamine; EEDQ; 7-OH-DPAT; Fluphenazine; Accumbens; Islands of Calleja (Yeghiayan, S.K. (792) 324)

Protein kinase C; MK-801; Brain slice; Phorbol ester; Mg^{2+} (Oh, S. (793) 337)

Substance P; Neurokinin 1 receptor; Human visual cortex (Kus, L. (794) 309)

TGFβ; TGF-β; In vitro; Microglia; Proliferation (Jones, L.L. (795) 301)

Inositol 1,4,5-trisphosphate; Inositol 1,3,4,5-tetrakisphosphate; Protein kinase C; Phorbol 12,13-dibutyrate; Human brain; Alzheimer's disease; Neurofibrillary tangles; Staging; Hippocampus (Kurumatani, T. (796) 209)

Serotonergic system; β-imager; 5-HT$_{1B}$ receptor; 5-HT-moduline (Cloëz-Tayarani, I. (798) 311)

Classical conditioning; Nictitating membrane; α-Amino-3-hydroxy-5-methylisoxazole-4-propionic acid; 6-Cyano-7-nitroquinoxaline-2,3-dion; Quisqualate receptor; Cerebellum (Hauge, S.A. (803) 9)

Morphine; Withdrawal; Abstinence; Cholinergic receptors; Blood pressure; Reverse transcriptase polymerase chain reaction; Rostral ventrolateral medulla (Zhang, L.C. (803) 114)

Brain injury; Gamma irradiation; Astrocyte proliferation; Immunocytochemistry; GFAP; S-100β protein; Developing rat (Setkowicz, Z. (803) 122)

Neuroprotection; Middle cerebral artery occlusion; Cerebral blood flow; Image-processing (Huh, P.W. (804) 105)

Synapse; Cocaine; MDMA; Methamphetamine; Depression; High-affinity uptake; Voltammetry; Electron microscopy; Immunocytochemistry; Citalopram; Paroxetine (Zhou, F.C. (805) 241)

Insect olfactory system; Glomeruli; Activity mapping; Odor representation (Distler, P.G. (805) 263)

Arachidonic acid; Basal ganglia; Brain metabolism; Fatty acid; Functional brain imaging; 6-Hydroxydopamine; Parkinson's disease; Phospholipase A_2 (Hayakawa, T. (807) 177)

Melanocortin receptor; γ1-MSH; HS014; Rat brain (Lindblom, J. (810) 161)

Autoregulation
Subarachnoid hemorrhage; Cerebral blood flow; Vasospasm; Rat (Yamamoto, S. (782) 194)

Arteriole; Middle cerebral artery; Myogenic response (Golding, E.M. (785) 293)

Hypothermia; Awake rat; Cerebral blood flow; Autoradiography (Niwa, K. (789) 68)

Aversion
Microdialysis; Rat; Dopamine; Self-stimulation; Stimulation-escape (Rada, P.V. (782) 228)

Rat; Open field; Exploration; In vivo microdialysis; Acetylcholine; Reinforcement; Learning; Novelty; Arousal; Attention (Thiel, C.M. (812) 121)

Aversion conditioning
Nucleus tractus solitarius; c-Fos; Learning; Lithium chloride; Amygdala (Schafe, G.E. (800) 40)

Aversive stimulus
Spaced training; Massed training; Associative learning; Classical conditioning; Appetitive stimulus; Gastropod (Kojima, S. (808) 113)

Awake rat
Autoregulation; Hypothermia; Cerebral blood flow; Autoradiography (Niwa, K. (789) 68)

Axonal conduction
Fiber volley; Glutamate; Presynaptic; Pre-terminal; TTX (Mikulec, A.A. (796) 231)

Axonal degeneration
Spinal cord injury; Endothelin; SB209670 (Uesugi, M. (786) 235)

Axonal reticulum
Axonal transport; Sympathetic nerve; Small synaptic vesicle; Synapsin; Synaptophysin (Quatacker, J. (802) 281)

Axonal transport
Axonal reticulum; Sympathetic nerve; Small synaptic vesicle; Synapsin; Synaptophysin (Quatacker, J. (802) 281)

Argyrophilic grains; Alzheimer disease; Image analysis; Neurofibrillary tangles; Neuropil threads (Velasco, M.E. (813) 329)

Axon collateral
Visual projection; Thalamo-Wulst; Tectorotundal; Double labeling; Fluorescent tracer; Chicken (Deng, C. (794) 281)

Superior colliculus; Parvicellular reticular formation; Cervical spinal cord; Rat (Yasui, Y. (804) 149)

Axon growth
Sprouting; S100B; Neurotropic factor; Astrogliosis; Glial-released protein; Hippocampus (McAdory, B.S. (813) 211)

Axonopathy
GDNF; GDNFR-α; Peripheral neuropathies; Cell infiltration (Yamamoto, M. (809) 175)

Axotomy
Neuronal death; Pyramidal cell; Brain injury (Fishman, P.S. (779) 231)

Cholecystokinin; Microdialysis; Spinal cord; CI988; Rat (Gustafsson, H. (790) 141)

Spinal cord injury; c-Fos immunohistochemistry; Frontal cortex; Motor cortex; Plasticity (Ikeda, S. (792) 164)

NFκB; Immunocytochemistry; Electron microscopy; Chronic constriction injury; Sciatic nerve; Dorsal root ganglion (Ma, W. (797) 243)

FKPB; Immunophilin; MAP kinase phosphatase; Regeneration (Winter, Ch. (801) 198)

Sympathetic ganglion; Intracellular signaling; LIF; STAT; NGF (Rajan, P. (802) 198)

Bupropion; Potassium; Haloperidol; Microdialysis; Striatum; Dopamine; DOPAC; Time course; Rat (Holson, R.R. (808) 182)

Septal cholinergic neurons; GM1; NGF (Panni, M.K. (812) 76)

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Baclofen
2-Hydroxysaclofen; Bicuculline methiodide; $GABA_A$ receptor; Blood pressure (DiMicco, J.A. (788) 245)

DAMGO; Estrogen; G-protein; GTPγS; μ-Opioid receptor (Cunningham, M.J. (791) 341)

Circadian rhythms; Suprachiasmatic nucleus; γ-aminobutyric acid; GABA; Rat; Brain-slice (Biggs, K.R. (807) 250)

$GABA_B$ receptor; Supraoptic neuron; 2OH-saclofen; Extracellular recording (Ibrahim, N. (813) 88)

Bacterial meningitis
Hypoglycorrhachia; Hyperglycemia; Cerebral metabolism; Newborn piglet (Park, W.S. (798) 195)

β-adrenergic
Hippocampus; Long-term potentiation (Moody, T.D. (794) 75)

β-adrenergic receptor
HPLC; In vivo microdialysis; Memory modulation; Stress (Quirarte, G.L. (808) 134)

β-adrenoceptor antagonist
Akathisia; Fos; Neuroleptics; Propranolol; Extra-pyramidal side effects (Ohashi, K. (802) 134)

β-amyloid
Alzheimer disease; Hippocampus; Calcium; Picrotoxin; Cell death (Graf, R.A. (786) 115)

Nicotine; $\alpha 4\beta 2$; Alzheimer's disease; Cortex (Kihara, T. (792) 331)

Variant form; Very low density lipoprotein receptor; Human brain; Myelin; apoE (Nakamura, Y. (793) 47)

Apolipoprotein E; Entorhinal cortex; Frontal cortex; Age; Gender (Johnson, J.K. (798) 18)

BAPTA
Intracellular calcium; NMDA; Hippocampal dentate granule cell; Epilepsy patch clamp recording; Visualization (Isokawa, M. (810) 241)

Barium
Carotid body; Glomus cell; Intracellular sodium; Voltage clamp; Hypoxia; Cobalt; TTX (Jiang, R.-G. (797) 197)

Barium-sensitive potassium channel
Hepatic encephalopathy; Hyperammonemia; Perforated patch; Electrochemical trapping (Allert, N. (782) 261)

Baroreceptor
Chemoreceptor; Heart; Intracardiac ganglia; Vagus nerve (Blinder, K.J. (785) 143)

Carotid sinus nerve; Chemoreceptor; Histochemistry; Immunocytochemistry; Synapse; Transganglionic transport; Ultrastructure (Massari, V.J. (785) 329)

Tyrosine phosphorylation; Brainstem; Cardiovascular control; Blood pressure; Anaesthetized rat (Man, H.-Y. (792) 141)

Brainstem; Nucleus tractus solitarius; Microdialysis; Acetylcholine; Glutamate (Ashworth-Preece, M.A. (806) 287)

Baroreceptor reflex
Cardiac-related rhythm; Cat; Forced oscillation; Sympathetic nerve discharge (Zhou, S.-Y. (780) 155)

Nucleus tractus solitarii; Angiotensin II; Angiotensin III; Angiotensin AT_1 receptor; Angiotensin AT_2 receptor; Losartan; PD-123319; Amastatin; Rat (Luoh, H.F. (782) 73)

Blood pressure; Hypertension; Endothelin receptors; Gene targeting; Chemoreceptor reflex (Ling, G.-Y. (808) 238)

Baroreceptor-related neuron
Extracellular recording; Insular cortex; Monkey (Zhang, Z.-H. (796) 303)

Barosensitive neuron
Aortic depressor nerve; Barosensitivity; Coefficient of variation; Firing rate; Skewness; Neurogenic hypertension; Rostral ventrolateral medulla (Han, Y.M.Y. (813) 262)

Barosensitivity
Aortic depressor nerve; Barosensitive neuron; Coefficient of variation; Firing rate; Skewness; Neurogenic hypertension; Rostral ventrolateral medulla (Han, Y.M.Y. (813) 262)

Barrel cortex
Postnatal development; [^{3}H]kainate binding; Autoradiography; Mouse (Jabłońska, B. (791) 325)

Peptide; Neuromodulator; Microiontophoresis; Single cell recording; Rat (Cahusac, P.M.B. (793) 73)

Barrel field
Plasticity; Evoked potentials; EEG; FFT; Rat (Musiał, P. (786) 1)

Barrels
Anterograde tracing; Biotinylated dextran amine; Cortical column; Corticostriatal; Neostriatum; Rat; Varicosities (Alloway, K.D. (785) 341)

Barrington's nucleus
Pontine micturition center; Distal colon; Locus coeruleus; Irritable bowel syndrome; Transsynaptic tracing; Pseudorabies virus; Retrograde tracing (Pavcovich, L.A. (784) 355)

Locus coeruleus; Micturition; Male sex behavior (Rizvi, T.A. (789) 256)

Basal forebrain
Neuroinflammation; Rat; Acetylcholine; Alzheimer's disease; Model (Hauss-Wegrzyniak, B. (780) 294)

Estrogen; Aging; Choline acetyltransferase; Neurotrophins; trkA (Singer, C.A. (789) 343)

Kainic acid; Neurotrophin; Brain-derived neurotrophic factor; trkB receptor; Hippocampus; Degeneration (Venero, J.L. (790) 270)

P75 neurotrophin receptor; Nerve growth factor; Spatial memory; Choline; Sex difference (Williams, C.L. (794) 225)

Choline acetyltransferase; $p75^{NTR}$; Calbindin; Calcium-binding protein; Neostriatum; Raccoon (Tremere, L. (797) 351)

Medial septum; Diagonal band; M_3 receptor; Cholinergic; Acetylcholine (Liu, W. (805) 220)

Basal ganglia
Glutamate; Metabotropic; Excitatory amino acid; Phosphoinositide (Tallaksen-Greene, S.J. (780) 210)

Striatum; Globus Pallidus; Quinolinic acid; Lesion; Water maze; Huntington's disease; Rat (Joel, D. (787) 143)

Frontal cortex; Striatum; AMPA; Kainate; NMDA; Fos; Attention (Schuller, J.J. (788) 315)

Anandamide; CP 55,940; Cannabinoid; Circling; Marijuana; Movement; THC (Miller, A.S. (793) 7)

Serotonin receptor; Regulation; Rat (Compan, V. (793) 103)

Transneuronal degeneration; Excitotoxicity; Substantia nigra reticulata; Programmed cell death (DeGiorgio, L.A. (795) 1)

mPFC lesions; In situ hybridization histochemistry; D2; D1; Enkephalin; GAD65; Substance P (Baca, S.M. (797) 55)

Parkinson's disease; Neurodegeneration; 6-Deoxy-6-β-[^{18}F]fluoronaltrexone; Positron emission tomography; Dopamine (Cohen, R.M. (806) 292)

Epilepsy; Amygdala kindled seizure; Substantia nigra pars reticulata; Subthalamic nucleus (Deransart, C. (807) 78)

Arachidonic acid; Autoradiography; Brain metabolism; Fatty acid; Functional brain imaging; 6-Hydroxydopamine; Parkinson's disease; Phospholipase A_2 (Hayakawa, T. (807) 177)

Dopamine; Dopamine receptors; Medium-sized neurons (Ouimet, C.C. (808) 8)

Schizophrenia; Adenosine 2a receptors; [] CGS21680; Postmortem brain (Kurumaji, A. (808) 320)

Amphetamine; Limbic system; Seizure; Neurodegeneration; Glutamate; Catecholamine (Bowyer, J.F. (809) 77)

Parkinson's disease; 6-hydroxydopamine lesion; NMDA antagonist; Genistein; Motor response alteration (Oh, J.D. (813) 150)

Basilar artery
Rat; Brain; Angiotensin II; Endothelin-1; Arginine vasopressin; Thromboxane; Stroke (Mayhan, W.G. (783) 326)

Oxyhemoglobin; Subarachnoid hemorrhage; Cyclooxygenase; Indomethacin; Acetylcholine; Histamine; Cyclooxygenase metabolite (Tran Dinh, Y.-R. (790) 91)

Basolateral amygdaloid nucleus
Long-term potentiation; Insular cortex; NMDA receptor; CPP; MK-801 (Escobar, M.L. (779) 314)

NMDA receptor; Long-term potentiation; Conditioned taste aversion; Insular cortex; CPP (Escobar, M.L. (812) 246)

Bax
Delayed neuronal death; Apoptosis; Necrosis; Cycloheximide; ICE (Bossenmeyer, C. (787) 107)

BBB022
Middle cerebral artery occlusion; BBB; Evans blue; Rat (Belayev, L. (787) 277)

BBB
BBB022; Middle cerebral artery occlusion; Evans blue; Rat (Belayev, L. (787) 277)

***β*-carboline system**
Cocaine; Seizures; Dopamine D1 and D2 receptors; NMDA–Ca ionophore complex (Ushijima, I. (797) 347)

Bcl-2
Neuronal differentiation; Neurofilament; PC12; Neurotoxic compound (Suzuki, A. (801) 59)

***bcl*-2**
3-Nitropropionic acid; Apoptosis; Mitochondria; Huntington's disease; *bcl-x*; c-*jun* (Sato, S. (808) 56)

Bcl-2 family
Alzheimer's disease; Temporal cortex; Hippocampus; Caspase family; Human neuroblastoma cell line SH-SY5Y (Kitamura, Y. (780) 260)

bcl-x
3-Nitropropionic acid; Apoptosis; Mitochondria; Huntington's disease; *bcl*-2; c-*jun* (Sato, S. (808) 56)

BDNF
Colchicine; Nucleus basalis; Cholinergic hypofunction; *trk*; AChE; NGF (Shaughnessy, L.W. (781) 62)

Retinal pigmented epithelium; Photoreceptors; trkB; Trophic factors; Differentiation (Hackett, S.F. (789) 201)

TrkB; Hypoxic/ischemic; Immunocytochemistry; NT-4/5 (Narumiya, S. (797) 278)

Spreading depression; Ischemia; bFGF; Astrocyte; Preconditioning (Matsushima, K. (807) 47)

Bed nucleus
5-Hydroxytryptamine; Cortex; Paraventricular nucleus; Caudate–putamen; Amygdala; Brainstem (Javed, A. (791) 67)

Bed nucleus of stria terminalis
Male rat; Castration; Dopamine; Amphetamine; Medial preoptic area; Caudate putamen; Amygdala; Microdialysis (Du, J. (782) 11)

Cocaine; D-1 receptor; Dopamine; Extended amygdala; Rat; SCH 23390; Self-administration (Epping-Jordan, M.P. (784) 105)

Aging; Autoradiography; Olfactory tubercle; Caudate–putamen; Ventromedial hypothalamic nucleus; Rat brain (Arsenijevic, Y. (785) 167)

Vasopressin; Oxytocin; Conditioned fear; Norepinephrine; Footshock (Onaka, T. (788) 287)

Angiotensin receptors; Medial forebrain bundle; Presynaptic (Grove, K.L. (809) 5)

Behavior
Stress experience; Footshocks; Rats; Open field; Naloxone; Emotional stimulus (Van den Berg, C.L. (799) 6)

Mesolimbocortical; Microdialysis; Nicotine dependence (Hildebrand, B.E. (779) 214)

Imidazoline receptor; Antihypertensive drug; Neuron; Glia; Rat; Immunocytochemistry (Ruggiero, D.A. (780) 270)

Neuroleptic; Microdialysis; Extrapyramidal; Neurotransmitter (O'Connor, W.T. (787) 299)

Hippocampus; Neocortex; Repair; Reinnervation; Grafts (Zhou, W. (792) 97)

Viscera; Olfaction; Motivation; Rat; Anterograde tracer (Ruggiero, D.A. (799) 159)

Caudate nucleus; Cingulate cortex; Cocaine; Genotype; Nucleus accumbens (Baumann, M.H. (804) 316)

Impoverished environment; Hippocampus; Microdialysis; Circadian rhythm; Stress (Mitsushima, D. (805) 207)

Wobbler mouse; Motoneuron disease; Early detection; Righting reflex; Degeneration (Bose, P. (813) 334)

Behavioral inhibition
Median raphe nucleus; Freezing; Fear conditioning (Avanzi, V. (790) 178)

Behavioral neurogenetics
Benzodiazepine receptor; Methyl β-carboline-3-carboxylate; Convulsion; Genetic selection; Mouse (Chapouthier, G. (787) 85)

Behavioral sensitization
Amphetamine; c-Fos; FRA; Immunohistochemistry; Striatum; Dopamine (Turgeon, S.M. (782) 329)

Pavlovian conditioning; Neostriatum; Apomorphine; Microinjection; Habituation; Locomotion (Pinheiro Carrera, M. (790) 60)

Prelimbic medial prefrontal cortex; Open field; Locomotion; Sniffing; Cocaine (Tzschentke, T.M. (795) 71)

Methamphetamine; Activity-regulated cytoskeleton-associated protein; In situ hybridization; SCH23390; MK-801 (Kodama, M. (796) 273)

Methylphenidate; MK-801; Psychomotor stimulant; Motor activity (Sripada, S. (814) 78)

β-endorphin release
Antibody microprobe; Volume transmission; Arcuate nucleus (MacMillan, S.J.A. (794) 127)

Benzamide
AMPA receptor desensitization; Deactivation; Cyclothiazide; Ampakine; EPSP; Benzoylpiperidine; Benzothiadiazide (Arai, A. (799) 230)

Poly(ADP-ribose) polymerase (PARP); 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); Nicotinamide adenine dinucleotide (NAD^+); Adenosine triphosphate (ATP); C57BL/6N mouse (Cosi, C. (809) 58)

Benzodiazepine
GABA-A receptor; Attention; Spatial memory; Learning and microinjection (Mao, J.-B. (784) 139)

Morphine; Diazepam; Opioid; μ-Opioid receptor; Constitutive receptor; Tolerance; Brain region; Spinal cord; Peripheral tissue; CNS (Tejwani, G.A. (797) 305)

Anesthetic; GABA; Radioligand; Allosterism (Bruner, K.R. (806) 122)

Benzodiazepine antagonist
RO19-4603; Alcohol; Operant responding; Alcohol-preferring (P) rat; TBPS (June, H.L. (784) 256)

Benzodiazepine inverse agonist
$GABA_A$-BDZ receptor; EtOH sedation; Striatum; Locomotor activity; *Xenopus oocyte*; $GABA_A$ subunit (June, H.L. (794) 103)

Benzodiazepine receptor
Methyl β-carboline-3-carboxylate; Convulsion; Genetic selection; Mouse; Behavioral neurogenetics (Chapouthier, G. (787) 85)

PNU-101017; Diazepam; Gerbil; Ischemia; Hippocampal CA_1 neuron (Hall, E.D. (798) 325)

Anxiety; Motor activity; Exploration; Huntington's disease (File, S.E. (805) 234)

Benzothiadiazide
AMPA receptor desensitization; Deactivation; Cyclothiazide; Ampakine; EPSP; Benzamide; Benzoylpiperidine (Arai, A. (799) 230)

Benzoylpiperidine
AMPA receptor desensitization; Deactivation; Cyclothiazide; Ampakine; EPSP; Benzamide; Benzothiadiazide (Arai, A. (799) 230)

Bepridil
Hippocampus; CA1 neuron; Patch-clamp; Potassium current (Hu, H. (809) 149)

Bergmann glia
Astrocyte; Heat shock protein; Macrophage; Mannitol; Microglia (Richmon, J.D. (780) 108)

Iron regulatory protein; Purkinje cell; Immunohistochemistry; Chicken brain (Cho, S.S. (794) 174)

Brain lesion; GFAP; Reactive gliosis; Astroglia (Ajtai, B.M. (802) 285)

Beta amyloid
Astrocyte; Interleukin-1; Nitric oxide synthase; Alzheimer's disease (Hu, J. (785) 195)

bFGF
3-NPA; Glia; Thrombin; GFAP (Deshpande, S.B. (783) 28)

Matrigel; Apoptosis; GDNF; IGF-I; Growth factors; Methamphetamine (Clarkson, E.D. (806) 60)

Spreading depression; Ischemia; BDNF; Astrocyte; Preconditioning (Matsushima, K. (807) 47)

B4-HRP
Spinal ganglia; Somatic nerve; Visceral nerve; Unmyelinated primary afferent; Peripheral nerve ending (Wang, H.F. (811) 34)

Biallelic
Imprinting; Insulin-like growth factor-II; H19; Development (Pham, N.V. (810) 1)

Bicarbonate
γ-Aminobutyric acid; Electrophysiology; Grease-gap (Phillips, I. (798) 330)

Biceps femoris
Human gait; Cutaneous reflexes; Sural nerve; Cortical facilitation; Magnetic stimulation; Tibialis anterior (Pijnappels, M. (787) 149)

Bicuculline
Monkey; Intracerebral injections; Muscimol; Globus pallidus internalis; Substantia nigra pars reticulata (Burbaud, P. (780) 102)

Defense rage behavior; Hypothalamus; GABA; $GABA_A$ receptor; Muscimol; Fluoro-Gold; Immunocytochemistry; Cat (Cheu, J.W. (783) 293)

Strychnine; Ketamine; Convergent neuron; Dorsal horn; Noxious immersion; Paw; Rat (McGaraughty, S. (784) 63)

Acetylcholine; Hippocampus; Medial septum; Diagonal band; Handling; Restraint; AMPA; NMDA; γ-Aminobutyric acid; Muscimol (Moor, E. (789) 1)

$GABA_A$ receptor; Plasma extravasation; Evans Blue; Formalin-induced inflammation; Spinal cord; Kaolin/carrageenan-induced inflammation (John, J.M. (794) 320)

Early seizure; Rat; 2-D-[^{14}C]deoxyglucose; Quantitative autoradiography; Brain functional deficit (Doriat, J.-F. (800) 114)

Adenosine receptor; CGS 21680; N^6-Cyclopentyladenosine; γ-Aminobutyric acid; Picrotoxin; Cerebral cortex (Phillis, J.W. (807) 193)

Bicuculline methiodide
Baclofen; 2-Hydroxysaclofen; $GABA_A$ receptor; Blood pressure (DiMicco, J.A. (788) 245)

BIDN
GABA receptor; L-Glutamate receptor; Glycine receptor; Identified neurones; *Xenopus* oocyte (Hamon, A. (780) 20)

BIM-26226
Peptide exposure; Gastrin-releasing peptide; Tolerance; Rat; Brain (Plamondon, H. (782) 202)

β-imager
Serotonergic system; $5\text{-}HT_{1B}$ receptor; 5-HT-moduline; Autoradiography (Cloëz-Tayarani, I. (798) 311)

Binding
Lectin; Concanavalin A; Glutamate receptor; Long-term potentiation; AMPA; CNQX (Hoffman, K.B. (795) 105)

Calcitonin; Hippocampus; Frontal cortex; 5-HT1A; Corticoid; Adrenalectomy (Boujrad, F. (812) 279)

Absence seizure; Neuroactive steroid; γ-Hydroxybutyric acid (GHB); Thalamus (Banerjee, P.K. (813) 343)

Binocular rivalry
Eye movement; Optokinetic nystagmus; Alternating OKN; Dichoptic presentation (Wei, M. (813) 406)

Biocytin
Brainstem slice; Dorsal motor nucleus of the vagus; Glutamate; NMDA; Substance P; Whole-cell recording (Liu, X. (804) 95)

Bioflavonoid
Acidosis; Dimethyl sulfoxide; Astrocyte; In vitro; Metallothionein; Acidosis; mRNA; Quercetin (Conklin, D.R. (794) 304)

Biological clock
Suprachiasmatic nucleus; Circadian rhythm; Nitric oxide synthase; Glutamate (Ferreyra, G.A. (797) 190)

Biotinylated dextran
Motor cortex; Ventrolateral medulla; Nucleus tractus solitarius; Fos protein; Rat (Ba-M'Hamed, S. (813) 411)

Biotinylated dextran amine
Anterograde tracing; Barrels; Cortical column; Corticostriatal; Neostriatum; Rat; Varicosities (Alloway, K.D. (785) 341)

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Biphasic effect
Neuromodulation; NMDA receptor; Glycine site; Patch clamp; Channel kinetics; Cross-reactivity (Liu, G.J. (791) 290)

Bipolar affective disorder
Lamotrigine; Epilepsy; Hippocampus; Potassium current (Grunze, H. (791) 330)

Bipolar cell
Color opponency; GABA; GABA receptor; Retina; Carp (Zhang, D.-Q. (792) 319)

Birds
Glutamate; Parvalbumin; Immunohistochemistry; Tectum; Nucleus rotundus; Nucleus triangularis; Ectostriatum; Heterogeneity; Dorso–ventral gradient (Theiss, C. (785) 114)

Bladder
Genitourinary; Parasympathetic; Spinal cord; c-*fos*; Immediate early gene (Grill, W.M. (796) 150)

Bladder smooth muscle
Nerve growth factor; Sympathetic; Micturition; Autonomic; Hypertension (Spitsbergen, J.M. (790) 151)

Blink reflex
DNIC; Interneuron; Convergence; Trigeminus; Brainstem (Ellrich, J. (803) 161)

Trigemino-facial reflex; Cutaneous afferent; Trigemino-hypoglossal reflex; Mucosal afferent; Man (Maisonobe, T. (810) 220)

Blood-brain barrier
Closed-head injury; Brain edema; Neurological deficit; Acetylcholinesterase inhibitor; Rat (Chen, Y. (784) 18)

Blood–brain barrier
Colchicine; Microdialysis; Mouse; P-glycoprotein; Pharmacokinetics (Evrard, P.A. (786) 122)

Neurotrophin; Brain; Spinal cord (Pan, W. (788) 87)

Cerebrospinal fluid; Choroid plexus; Developing brain; Homeostasis; Iron; Transferrin receptor (Moos, T. (790) 115)

Zidovudine; Lamivudine; Thymidine; Lipid solubility (Wu, D. (791) 313)

Bradykinin; B2 receptor; Brain tumor; RG2 glioma (Matsukado, K. (792) 10)

Na^+, K^+-ATPase; Abluminal polarity; Enzyme cytochemistry; Ernst indirect method; Mayahara direct method (Manoonkitiwongsa, P.S. (798) 261)

Blood–brain barrier
Bradykinin agonist; Drug delivery; Psychopharmacology; Analgesia; Opiates (Emerich, D.F. (801) 259)

Neutrophil depletion; RP3 monoclonal antibody; Cerebritis; Tissue injury; Cerebrovascular permeability (Lo, W.D. (802) 175)

Prostaglandin; Endotoxin; Endothelial (Quan, N. (802) 189)

Endothelial cell; Transendothelial resistance; Glutathione; Nitric oxide; Oxidative stress (Hurst, R.D. (802) 232)

Fever mechanism; Interleukin-6; Interleukin-1; Interleukin-1 receptor antagonist (Akarsu, E.S. (803) 137)

Brain; Drug delivery; Microdialysis; Permeability (Groothuis, D.R. (803) 218)

γ-Aminobutyric acid; Uptake; Transporter; Brain capillary; Brain capillary endothelial cell (Zhang, Y. (808) 1)

Histidine; Rat; Stereoselective transport (Yamakami, J. (812) 105)

Cerebral ischemia; NMDA receptor; Polyamines (Preston, E. (813) 191)

Blood–CSF-barrier
Choroid plexus epithelial cell culture; Cell polarity; Active transport; Organic anion exchanger; Fluid secretion (Hakvoort, A. (795) 247)

Blood flow
Hyperalgesia; Allodynia; Visible flare; Thermography; Capsaicin (Mohammadian, P. (792) 1)

Ischemic duration; PDH activity; Energy metabolite (Fukuchi, T. (792) 59)

Hyperglycemia; Peripheral nerve; Rat (Kalichman, M.W. (810) 130)

Blood pressure
Parathyroid hormone-related protein; Monoclonal antibody; Sympathetic nervous system; Central nervous system (Nagao, S. (785) 75)

L-NAME; Losartan; Prazosin; Indomethacin; Prostaglandin (Liu, H. (785) 317)

Open-channel block; Neuronal nicotinic receptor; Bullfrog sympathetic ganglia (Shen, W.-X. (788) 118)

Baclofen; 2-Hydroxysaclofen; Bicuculline methiodide; $GABA_A$ receptor (DiMicco, J.A. (788) 245)

Tyrosine phosphorylation; Brainstem; Baroreceptor; Cardiovascular control; Anaesthetized rat (Man, H.-Y. (792) 141)

Chronic stress; Heart rate; Formalin; Pain; ACTH; Parabrachial (Bhatnagar, S. (797) 313)

Brain stem; Hypovolemia; Cardiovascular system; Fos-protein (Anselmo-Franci, J.A. (799) 278)

Morphine; Withdrawal; Abstinence; Cholinergic receptors; Autoradiography; Reverse transcriptase polymerase chain reaction; Rostral ventrolateral medulla (Zhang, L.C. (803) 114)

Nitric oxide; Periaqueductal gray; GABA; Enkephalin; Glutamic acid; Hydroxylamine; TRIM; Sodium nitroprusside (Hall, C.W. (805) 69)

Cat; Exercise pressor reflex; Excitatory amino acid; Spinal cord; Muscle afferent neuron (Wilson, L.B. (807) 222)

Hypertension; Endothelin receptors; Gene targeting; Baroreceptor reflex; Chemoreceptor reflex (Ling, G.-Y. (808) 238)

Heart rate; Forebrain; Insular lateralization (Zhang, Z.-H. (813) 73)

Blood vessel
Peripheral nerve; Regeneration; Acellular; Schwann cell; Macrophage (Fugleholm, K. (792) 309)

Afferent input; Postganglionic; T-rhythm (Smith, J.E. (811) 169)

B6 mice
D2 mice; Seizure; Epilepsy; Electroconvulsive shock; Genetics; Quantitative trait loci (Ferraro, T.N. (813) 207)

Body temperature
Interleukin-1β; Aggressive behavior; Non-social behavior; Corticosterone; Mouse (Cirulli, F. (791) 308)

Body weight
Testosterone; FSH; Testis; Sex difference; Free-running; Diurnal; Rodent (Goel, N. (792) 229)

Bombesin
Amygdala; Nucleus tractus solitarius; Inhibitory avoidance; Memory; Reversible inactivation (Rashidy-Pour, A. (814) 127)

Botulinum type-A toxin
Neuromuscular junction; Motor nerve sprouting; Synaptotagmin II; Exocytosis; α-Latrotoxin; La^{3+} (Angaut-Petit, D. (797) 357)

Bötzinger complex
Nucleus of the Tractus Solitarius; Pontine respiratory group; Neural pathway; Respiration (Zheng, Y. (782) 113)

Bovine brain
[^{3}H]5-hydroxytryptamine binding; [^{3}H]spiperone binding; Serotonin receptor, 5-HT_1 and 5-HT_2 receptor; Coated vesicle (Moroi, K. (794) 291)

β protein precursor
Amyloid-β; Hypoperfusion; Oxidative stress; Vasculature atrophy (Perry, G. (791) 63)

Bradycardia
Chemoreceptor projection site; Depressor response; Pressor response; Tachycardia (Dhruva, A. (801) 88)

Endomorphin 1; Endomorphin 2; Vagal afferent; Hypotension; Opiate; μ-Opiate receptor (Kwok, E.H. (803) 204)

Cardioinhibitory neuron; Cardiac ganglion; Congestive heart failure; Heart; Myocardial contractility; Parasympathetic nervous system; Vagus nerve (Blinder, K.J. (804) 325)

Bradykinesia
Parkinson's disease; Reaction time; Simple reaction time; Choice reaction time; Cerebral evoked potentials; Akinesia (Kutukcu, Y. (799) 1)

Bradykinin
Blood–brain barrier; B2 receptor; Brain tumor; RG2 glioma (Matsukado, K. (792) 10)

Chromaffin cell; Intracellular Ca^{2+}; Exocytosis; $I_{K(Ca)}$; Caffeine (Kim, S.J. (799) 197)

Bradykinin agonist
Blood brain barrier; Drug delivery; Psychopharmacology; Analgesia; Opiates (Emerich, D.F. (801) 259)

Brain
Rat; Cerebral blood flow; Cerebral metabolic rate; Glycine; Antagonist; N-methyl-D-aspartate (Morimoto, Y. (779) 170)

Peptide exposure; Gastrin-releasing peptide; Tolerance; BIM-26226; Rat (Plamondon, H. (782) 202)

Creatine kinase; Seizure; White matter; Gray matter; Nuclear magnetic resonance spectroscopy (Holtzman, D. (783) 19)

Fibroblast growth factor-9; Neurotrophic factor; Neuron; Immunohistochemistry (Todo, T. (783) 179)

5-Hydroxytryptamine; Cerebral blood flow; Migraine; Ritanserin (Gold, L. (783) 188)

Rat; Basilar artery; Angiotensin II; Endothelin-1; Arginine vasopressin; Thromboxane; Stroke (Mayhan, W.G. (783) 326)

Allopurinol; Asphyxia; *N*-methyl-D-aspartate receptor; Lipid peroxidation; Na^+,K^+-ATPase activity (Marro, P.J. (787) 71)

Nitric oxide; Mitochondria; Hypoxia; Perinatal (Bolaños, J.P. (787) 117)

Mushroom body; Associative memory; Insect; GABA; Inhibitory transmitter; Immunocytochemistry (Yamazaki, Y. (788) 80)

Neurotrophin; Blood–brain barrier; Spinal cord (Pan, W. (788) 87)

Integrin; Synapse; Dendrite; Glia; Distribution (Nishimura, S.L. (791) 271)

FITC-dextran; Cerebral venule; Pial arteriole; Inducible nitric oxide; Aminoguanidine; Rat (Mayhan, W.G. (792) 353)

Chronic EtOH; Anandamide; Cannabinoid receptor; Down-regulation (Basavarajappa, B.S. (793) 212)

Acetyl-L-carnitine; Glucose; Glycogen; ^{13}C NMR spectroscopy; Stable isotope (Aureli, T. (796) 75)

Glucose transporter; Glia; Microvessel; Immunohistochemistry; Immunoelectron microscopy (Yu, S. (797) 65)

Epibatidine; Fos protein; Nicotinic receptor; Immunohistochemistry; Rat (Watanabe, K.-i. (797) 135)

Microdialysis; Dopamine; Acetylcholine; Nucleus accumbens; Feeding behavior; Galanin; Neuropeptide Y; Paraventricular nucleus; Hypothalamus; Microinjection (Rada, P. (798) 1)

Rat; Hydrocephalus; HPLC; Dopamine; Taurine; Cerebrospinal fluid shunt (Del Bigio, M.R. (798) 119)

Hepatocyte growth factor; Hepatocyte growth factor activator; Ischemia; Rat (Hayashi, T. (799) 311)

Thyroxine; Triiodothyronine; Deiodinase; Human; Tumor (Calvo, R.M. (801) 150)

Blood–brain barrier; Drug delivery; Microdialysis; Permeability (Groothuis, D.R. (803) 218)

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Apoptosis; Lipopolysaccharide; Fever (Mouihate, A. (805) 95)

Choline acetyltransferase; In situ hybridization; Human (Kasashima, S. (806) 8)

Iron; Neonate; Transgenic; Mouse; Hypoxia–ischemia (Sheldon, R.A. (810) 114)

Alcoholism; Choroid plexus; Ion transport (Javaheri, S. (812) 91)

Hypoxia; Purine; Pyrimidine; K_{ATP} channel; Diazoxide; Tolbutamide (Pissarek, M. (812) 164)

D_3 dopamine receptor; 7-OH-DPAT; Nafadotride; [^{14}C]-2-deoxyglucose; Local cerebral glucose utilization; Rat (Levant, B. (812) 193)

P2X receptor; Purinoceptor; ATP; Hypothalamus; Central nervous system (Xiang, Z. (813) 390)

Brain aging
IGF-I; Insulin-like growth factor I; In situ hybridization; Dot blot (Niblock, M.M. (804) 79)

Brain angiotensin
Cadmium; Cadmium neurotoxicity; Calcium channel; Losartan; Gadolinium; Natriuresis; Kaliuresis (Luz, C.P. (796) 265)

Brain asymmetry
Anisotropic diffusion; Diffusion tensor; Neural connectivity (Peled, S. (780) 27)

Brain capillary
Chronic nicotine; Local cerebral glucose utilization; Immunostaining; Autoradiography (Duelli, R. (782) 36)

γ-Aminobutyric acid; Uptake; Transporter; Brain capillary endothelial cell; Blood–brain barrier (Zhang, Y. (808) 1)

Brain capillary endothelial cell
γ-Aminobutyric acid; Uptake; Transporter; Brain capillary; Blood–brain barrier (Zhang, Y. (808) 1)

Brain-derived neurotrophic factor
Kainic acid; Neurotrophin; trkB receptor; Basal forebrain; Hippocampus; Degeneration (Venero, J.L. (790) 270)

Hippocampal neuron; Synaptic transmission; NMDA receptor; Non-NMDA receptor; Excitatory postsynaptic current (Song, D.-K. (799) 176)

Aging; trkB; Neurotrophin; Memory (Croll, S.D. (812) 200)

Parkinson's disease; Dopamine; Mesencephalic tissue culture (Höglinger, G.U. (813) 313)

Brain development
Endothelial nitric oxide synthase; Vasculature; Rat; Immunohistochemistry; Tyramide-signal amplification (Töpel, I. (788) 43)

Nitric oxide; Methylazoxymethanol acetate; NADPH-diaphorase; Immunochemistry (Tregnago, M. (793) 54)

Brain edema
Closed-head injury; Blood-brain barrier; Neurological deficit; Acetylcholinesterase inhibitor; Rat (Chen, Y. (784) 18)

Brain functional deficit
Bicuculline; Early seizure; Rat; 2-D-[^{14}C]deoxyglucose; Quantitative autoradiography (Doriat, J.-F. (800) 114)

Brain–gut axis
Cold water restraint; Neurotensin receptor; Neurotensin receptor antagonist (Karinch, A.M. (810) 123)

Brain inflammation
Microglial activation; Macrophage; Major histocompatibility complex antigen; Alzheimer's disease; Lipopolysaccharide; Rat (Hauss-Wegrzyniak, B. (794) 211)

Brain injury
Neuronal death; Pyramidal cell; Axotomy (Fishman, P.S. (779) 231)

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c-Fos; Potassium; Glial fibrillary acidic protein; Immunohistochemistry (Herrera, D.G. (784) 71)

Glia/neuronal interaction; Swelling; Synaptic plasticity; Sprouting (D'Ambrosio, R. (786) 64)

Chemokine; Cytokine; mRNA; Cortical lesion (Hausmann, E.H.S. (788) 49)

Neural degeneration; Fiber track degeneration; Neurobehavior (Matthews, M.A. (794) 1)

Gamma irradiation; Astrocyte proliferation; Autoradiography; Immunocytochemistry; GFAP; S-100β protein; Developing rat (Setkowicz, Z. (803) 122)

Neonatal cerebral hypoxia–ischemia; Rat; Cortical EEG; Locomotor activity; Telemetry (Antier, D. (807) 29)

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Brain ischemia
Hippocampus; γPKC gene expression (Zabłocka, B. (779) 254)

Testosterone; Estradiol; Stroke; Male rat; Middle cerebral artery occlusion (Hawk, T. (796) 296)

Brain lesion
GFAP; Bergmann-glia; Reactive gliosis; Astroglia (Ajtai, B.M. (802) 285)

Brain macrophage
ED1; Ionized calcium binding adapter molecule 1; MHC class II antigen; Motor neuron degeneration; Proliferating cell nuclear antigen; Retrograde change (Graeber, M.B. (813) 241)

Brain metabolism
Arachidonic acid; Autoradiography; Basal ganglia; Fatty acid; Functional brain imaging; 6-Hydroxydopamine; Parkinson's disease; Phospholipase A_2 (Hayakawa, T. (807) 177)

Brain microdialysis
Dopamine; L-DOPA; Repeated administration; Parkinson's disease (Brannan, T. (784) 148)

Kainic acid; Glutamate; GABA; In situ hybridization; Immunohistochemistry (Ding, R.-g. (800) 105)

Brain neuron
Glycine; Monoclonal antibody; Immunohistochemistry (Fujiwara, K. (806) 210)

Brain region
Morphine; Diazepam; Opioid; Benzodiazepine; μ-Opioid receptor; Constitutive receptor; Tolerance; Spinal cord; Peripheral tissue; CNS (Tejwani, G.A. (797) 305)

Brain slice
Aging; Extracellular pH; Hippocampus; Intracellular pH; Intrinsic buffering power; Ion transport; pH Regulation (Roberts Jr., E.L. (779) 271)

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Anoxic depolarization; Energy metabolism; Hydrogen ion concentration; Hypoxia; Lactate; SNARF; Synaptic transmission (Roberts Jr., E.L. (783) 44)

Cerebellum; Superior colliculus; Hippocampus; Anoxia; Adenosine; Inosine; Hypoxanthine; ATP (Yamada, T. (787) 220)

Locus coeruleus; Morphine; Opiate dependence; Naloxone (Bell, J.A. (788) 237)

Aging; Dizocilpine; Hippocampus; Hypoxia; Ion transport; Potassium ion homeostasis (Roberts Jr., E.L. (791) 321)

Protein kinase C; MK-801; Autoradiography; Phorbol ester; Mg^{2+} (Oh, S. (793) 337)

Parabrachial nucleus; Sensory processing; Inhibition; Synaptic processing (Kobashi, M. (799) 323)

Hippocampus; AMPA receptor; NMDA receptor; Synapses; Coefficient of variation (Niu, Y.-P. (800) 253)

Circadian rhythms; Suprachiasmatic nucleus; γ-aminobutyric acid; GABA; Baclofen; Rat (Biggs, K.R. (807) 250)

Suprachiasmatic nucleus; Circadian rhythm; Serotonin; Neuropeptide Y; Cyclic AMP (Prosser, R.A. (808) 31)

Whole-cell patch clamp; Rat olfactory cortex neurone; Development; Hyperpolarization-activated current; Slow h-current (I_h); Fast inward rectification; Specific I_h blocker: ZD 7288 (Sciancalepore, M. (814) 133)

c-*fos*; hsp70; Apoptosis; NMDA; Translation; Transcription; Neonate; Stress proteins; Immediate early genes (Hasegawa, K. (785) 262)

Preoptic area; Hypothalamus; Frontal cortex; Synaptosome; NMDA (Fiber, J.M. (790) 329)

Brainstem
Autonomic regulation; Nociception (Armstrong, C.L. (785) 49)

5-Hydroxytryptamine; Cortex; Paraventricular nucleus; Bed nucleus; Caudate–putamen; Amygdala (Javed, A. (791) 67)

Active avoidance; Magnocellular reticular formation; Passive avoidance; Senescence-accelerated mouse SAM; Spongy degeneration (Yagi, H. (791) 90)

Tyrosine phosphorylation; Baroreceptor; Cardiovascular control; Blood pressure; Anaesthetized rat (Man, H.-Y. (792) 141)

Estrogen; Progesterone; Flurothyl; Low magnesium; Convulsion; Forebrain; Entorhinal cortex (Velíšek, L. (796) 247)

Hypovolemia; Cardiovascular system; Fos-protein; Blood pressure (Anselmo-Franci, J.A. (799) 278)

In vitro; Newborn rat; Opioid; Respiration; Temperature; Age (Takita, K. (800) 308)

Blink reflex; DNIC; Interneuron; Convergence; Trigeminus (Ellrich, J. (803) 161)

Nucleus tractus solitarius; Microdialysis; Acetylcholine; Glutamate; Baroreceptor (Ashworth-Preece, M.A. (806) 287)

Ototoxicity; Cytochrome oxidase; Glial fibrillary acidic protein (Rosen, J.H. (813) 177)

Brainstem slice
Biocytin; Dorsal motor nucleus of the vagus; Glutamate; NMDA; Substance P; Whole-cell recording (Liu, X. (804) 95)

Brain stimulation reward
Medial forebrain bundle; Self-stimulation; Rate–frequency curve shift; Pedunculopontine tegmentum; Lateral dorsal tegmentum (Waraczynski, M. (800) 154)

Brain-stimulation reward
Dopamine; D1 antagonist; Nucleus accumbens; Prefrontal cortex; Self-stimulation; Rat (Duvauchelle, C.L. (811) 57)

Brain tumor
Blood–brain barrier; Bradykinin; B2 receptor; RG2 glioma (Matsukado, K. (792) 10)

B2 receptor
Blood–brain barrier; Bradykinin; Brain tumor; RG2 glioma (Matsukado, K. (792) 10)

Bromocriptine
Functional MRI; T2*-weighted MRI; Haloperidol; D_2 dopamine receptor agonist; D_2 dopamine receptor antagonist (Hagino, H. (813) 367)

8-bromo-cyclic adenosine monophosphate
Cyclic adenosine monophosphate; Circadian; Serotonin; Brain slice; Aging (Ruby, N.F. (779) 338)

8-Bromo cyclic AMP
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BSI-B4 isolectin histochemistry
Macrophage recruitment; Astrocyte; Proliferation; ^{3}H-thymidine autoradiography; Developing rat brain (Janeczko, K. (812) 172)

Bullfrog sympathetic ganglia
Open-channel block; Neuronal nicotinic receptor; Blood pressure (Shen, W.-X. (788) 118)

Bupropion
Potassium; Haloperidol; Microdialysis; Striatum; Dopamine; DOPAC; Time course; Axotomy; Rat (Holson, R.R. (808) 182)

Bursting
Reticulospinal neuron; Command system; Locomotion; Spike frequency adaptation; Delayed excitation (Rouse, D.T. (779) 301)

Burying behavior
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Buthionine
Cochlea; Reactive oxygen species; Glutathione; Cysteine; Oxothiazolidine carboxylate; Noise-induced hearing loss; Guinea pig (Yamasoba, T. (784) 82)

Butyrylcholinesterase
Acetylcholinesterase; Dorsal root ganglion; Sensory nervous system; Neural development; Histochemistry; In situ hybridization (Koenigsberger, C. (787) 248)

BXSB
Radial-arm maze; C57BL/6; NZB; Inbred mice; Working memory; Reference memory; Spatial; Learning; Memory load; Win-shift (Hyde, L.A. (785) 236)

C

$[Ca^{2+}]_i$
AMPA; Cerebellar granule cell; Rat; Metabolic inhibition; Neurotoxicity; Cyanide, NaCN; DNA fragmentation; Glutamate (Cebers, G. (779) 194)

CA1
CA3; Eliprodil; Hippocampus; Hypoxia; Ischemia; Neuronal death; Neuroprotection; *N*-Methyl-D-aspartate; NR2B; Stroke (Reyes, M. (782) 212)

CA3
CA1; Eliprodil; Hippocampus; Hypoxia; Ischemia; Neuronal death; Neuroprotection; *N*-Methyl-D-aspartate; NR2B; Stroke (Reyes, M. (782) 212)

LTD; Hippocampus; Neural network (Wu, Z. (789) 335)

Ca^{2+}
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CA3
Frequency potentiation; Synchronization; Non-NMDA type glutamate receptors; $GABA_B$ receptors; Disinhibition; El mouse (Fueta, Y. (792) 79)

CA1
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CA3
Feedforward excitation; Paired-pulse facilitation; Current source density; Medial perforant path; Dentate gyrus (Wu, K. (797) 35)

Ca^{2+}
Adenosine; Astroglia; Purinergic receptor (Pilitsis, J.G. (798) 294)

CA1
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Cerebral ischemia; Postischemic hypothermia; Learning; Gerbil; Habituation; Working memory (Colbourne, F. (803) 69)

Ca^{2+}/calmodulin-dependent protein kinase II
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Ca^{2+} channel
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K^+ channel; Carotid body; Hypoxia; Chemotransduction; Arachidonic acid (Hatton, C.J. (787) 315)

Ca^{2+} channel antagonist
Fura-2; Cytosolic calcium; Voltage-gated Ca^{2+} channel; Primary sensory neuron; Vagal afferent (Sato, M. (813) 203)

Ca^{2+} channel blocker
Nicardipine; PDH activity; Energy metabolites; Cerebral ischemia (Katayama, Y. (781) 212)

Carotid body; Cytochrome a_3^{2+}; Intracellular Ca^{2+} store; Metabolic inhibition; O_2 chemoreception model (Mokashi, A. (803) 194)

Cachexia
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Ca^{2+} current
Hypoxia; Chronic hypoxia; Carotid body; K^+ current (Carpenter, E. (811) 79)

Hippocampal CA1 region; Pyramidal neuron; Nilvadipine; Amlodipine; Flunarizine (Ishibashi, H. (813) 121)

Ca^{2+}-dependency
Perilymph; Glutamate; Continuous monitoring; Microdialysis (Matsuda, K. (794) 343)

Ca^{2+}-dependent K^+ channel
FK506; Rapamycin; Rat cultured hippocampal neuron; Single-channel activity (Terashima, A. (786) 255)

Cadmium
Cadmium neurotoxicity; Brain angiotensin; Calcium channel; Losartan; Gadolinium; Natriuresis; Kaliuresis (Luz, C.P. (796) 265)

Cadmium neurotoxicity
Cadmium; Brain angiotensin; Calcium channel; Losartan; Gadolinium; Natriuresis; Kaliuresis (Luz, C.P. (796) 265)

Caffeine
Action potential; Cyclopentyladenosine (Swanson, T.H. (784) 188)

Chromaffin cell; Intracellular Ca^{2+}; Exocytosis; $I_{K(Ca)}$; Bradykinin (Kim, S.J. (799) 197)

Drug tolerance; Abstinence syndrome; Adenosine receptor; G protein; Adenylyl cyclase; Adenosine 3′,5′-cyclic phosphate; Mouse (Leite-Morris, K.A. (804) 52)

CA3 hippocampal slice
Spontaneous epileptiform burst; Long-term potentiation; Chaotic mossy fiber stimulation; Spatial synchronization; Cross-correlation function (Ishizuka, S. (790) 108)

$[Ca^{2+}]_i$
Adrenomedullin; Calcitonin gene-related peptide; Dual signaling; KG-1C; Oligodendrocyte (Uezono, Y. (786) 230)

4-AP; Glomus cell; K^+–O_2 current; Low $[Ca^{2+}]_o$ plus high $[Mg^{2+}]_o$; Membrane potential; Neurosecretion; TEA (Lahiri, S. (794) 162)

Ca^{2+} imaging
Purkinje cell; Voltage-gated Ca^{2+} channel; Patch clamp recording; ω-Agatoxin-IVA; Ni^{2+} (Watanabe, S. (791) 43)

Calbindin
Choline acetyltransferase; $p75^{NTR}$; Calcium-binding protein; Basal forebrain; Neostriatum; Raccoon (Tremere, L. (797) 351)

Amacrine cell; Ganglion cell; Cone photoreceptor; Outer segment; Horizontal cell; NMDA-R2A; NMDA-R2B; Parvalbumin; Immunocytochemistry; Colocalization with GABA (Goebel, D.J. (808) 141)

Calbindin-D28k
Calcium-binding protein; Immunocytochemistry; Olfaction (García-Ojeda, E. (789) 101)

Calcineurin
Central chemoreceptor; Respiration; Glutamate; GABA; cAMP (Miura, M. (780) 34)

FK506; FK506 binding protein; Cerebral ischemia; Cerebral blood flow; Gerbil (Nozaki, H. (781) 1)

Cyclosporin A; Mitochondria; Mitochondrial permeability transition; Ischemia; Neuroprotection (Uchino, H. (812) 216)

Calcitonin
Hippocampus; Frontal cortex; 5-HT1A; Binding; Corticoid; Adrenalectomy (Boujrad, F. (812) 279)

Calcitonin gene-related peptide
Gene expression; Sensory neuron; α_2-adrenergic receptor; Nerve growth factor (Supowit, S.C. (782) 184)

Adrenomedullin; $[Ca^{2+}]_i$; Dual signaling; KG-1C; Oligodendrocyte (Uezono, Y. (786) 230)

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μ-Opioid receptor; Substance P; Nitric oxide synthase; Nodose ganglion; Petrosal ganglion; Jugular ganglion; Coexistence; Rat (Ding, Y.-Q. (792) 149)

μ-opioid receptor; Substance P; Dorsal root ganglion; Trigeminal ganglion; Spinal cord; Nociception; Rat (Li, J.-L. (794) 347)

Substance P; NK 1 receptor; Confocal microscopy; Three dimensional reconstruction (Ladic, L.A. (795) 312)

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Jugular ganglion; NADPH-diaphorase; Nodose ganglion; Petrosal ganglion; Somatostatin; Substance P; Tyrosine hydroxylase (Ichikawa, H. (800) 312)

Calcium
Acetylcholine; Dissociated neurons; Dopamine; GabaA; Muscimol; Striatum; Vesamicol (Login, I.S. (779) 33)

PC12 cell; Nerve growth factor; K^+ depolarization; Apoptosis (Dispersyn, G. (779) 350)

Cell culture; Zinc; Glutamate; Neurotoxicity; Timm's staining; Cobalt; Co^{2+} (Yin, H.Z. (781) 45)

Metabotropic; Release; [^{3}H]-GABA; Cortical culture; Electrophysiology (Schaffhauser, H. (782) 91)

Protein synthesis; Anoxia/aglycemia; NMDA; pH; Acidosis (Raley-Susman, K.M. (782) 281)

Traumatic brain injury; Cat; Cytoskeleton; Neurofilament; Phosphorylation (Okonkwo, D.O. (784) 1)

Cerebral ischemia; CLSM; Rat; Hippocampus; Fluo 3; Fura Red (Grøndahl, T.Ø. (785) 58)

Alzheimer disease; Hippocampus; β-amyloid; Picrotoxin; Cell death (Graf, R.A. (786) 115)

Magnesium; Control of breathing; Central chemosensitivity; Neonatal rat; Isolated brainstem–spinal cord preparation (Kuwana, S.-i. (786) 194)

Calpain; Glutamate; Receptor; Plasticity; Hippocampus (Bi, X. (790) 245)

Vasopressin; IP_1; Cerebral cortex; Calcium channel; Learning and memory (Son, M.C. (793) 244)

Calpain; Calpastatin; Neutral proteinase; Experimental allergic encephalomyelitis; Multiple sclerosis (Shields, D.C. (794) 68)

Cerebral ischemia-anoxia; Thapsigargin; Hippocampus; CLSM; Fluo-3–Fura Red (Grøndahl, T.Ø. (796) 125)

Thermosensitive neuron; Fura-PE3; Dorsal root ganglion; Warm cell (Gotoh, H. (796) 319)

Associative learning; Classical conditioning; Adenylyl cyclase; Calmodulin; Coincidence detector (Lin, A.H. (800) 300)

Glucocorticoid; Stress; Striatum; gp120; HIV; AIDS-related dementia; Neuron death (Iyer, A.M. (808) 305)

GABA; Phosphorylation; Receptor binding; Muscimol (Churn, S.B. (809) 68)

Excitotoxicity; Kainate; Glutamate; Motoneuron (Terro, F. (809) 319)

Hypoxia; Sodium; Fura-2; Glutamate; Glutamate transporter; Na^+–Ca^{2+} exchanger (Yamaguchi, S. (813) 351)

Calcium-binding protein
Neurocalcin; Dorsal root ganglia; Nodose ganglia; Trigeminal ganglia; Rat (Iino, S. (781) 236)

Amygdaloid complex; Electron microscopy; Interneuron (Sorvari, H. (783) 355)

Immunocytochemistry; Dual staining; Magnocellular neuroendocrine cell (Miyata, S. (785) 178)

S-100; Neuropeptide Y; Reactive neuron; Dorsal root ganglion nerve cell; Sciatic nerve transection (Huang, Y.-L. (785) 351)

Neuronal cell death; Nerve transection; Rat; Immunohistochemistry; In situ hybridisation (Dassesse, D. (786) 181)

Calbindin-D28k; Immunocytochemistry; Olfaction (García-Ojeda, E. (789) 101)

Neurocalcin; Olfactory bulb; Specific cell marker (Briñón, J.G. (795) 204)

Rat; Striato-pallidal system; Septum; Tyrosine hydroxylase (Seifert, U. (795) 227)

Choline acetyltransferase; $p75^{NTR}$; Calbindin; Basal forebrain; Neostriatum; Raccoon (Tremere, L. (797) 351)

Auditory brainstem response; Cochlear nucleus; Quantification; Noise; Immunocytochemistry (Idrizbegovic, E. (800) 86)

Neurocalcin; Immunohistochemistry; Muscle spindle; Golgi tendon organ; Motor endplate (Iino, S. (808) 294)

Excitotoxicity; Neurodegeneration; Calcium deposits; Hydroxyapatite; Glial reaction (Herrmann, G. (786) 205)

Calcium calmodulin-dependent protein kinase II
Cochlear outer hair cell; Chloride channel; Potassium channel; Protein phosphatase; *N*-acetylsphingosine; Calyculin A (Minamino, M. (781) 275)

Calcium channel
Cannabinoid; Hippocampus; Patch-clamp (Shen, M. (783) 77)

Medial preoptic nucleus; Calcium spike; Whole-cell patch clamp (Sundgren-Andersson, A.K. (783) 194)

Cyclosporine; Patch-clamp; Potassium channels; Vagal afferents (Hay, M. (786) 243)

Vasopressin; Calcium; IP_1; Cerebral cortex; Learning and memory (Son, M.C. (793) 244)

ω-Conotoxin GVIA; Desipramine; Exocytosis; Neurotransporter; Noradrenaline (Yamazaki, T. (794) 146)

Cadmium; Cadmium neurotoxicity; Brain angiotensin; Losartan; Gadolinium; Natriuresis; Kaliuresis (Luz, C.P. (796) 265)

Calcium channel antagonist
Anticonvulsant; Dihydropyridine; Nimodipine; Pentylenetetrazole; Electroshock (Zapater, P. (796) 311)

Calcium deposits
Excitotoxicity; Neurodegeneration; Hydroxyapatite; Calcium binding proteins; Glial reaction (Herrmann, G. (786) 205)

Calcium efflux
Activity-dependent survival; Cerebellar granule neuron; Calcium influx; Endocytosis (Kohara, K. (809) 231)

Calcium influx
Activity-dependent survival; Cerebellar granule neuron; Calcium efflux; Endocytosis (Kohara, K. (809) 231)

Calcium ion
Noradrenaline uptake; Noradrenaline transporter; Calmodulin-dependent protein kinase II; Myosin light chain kinase; PC12 cell (Uchida, J. (809) 155)

Calcium permeable AMPA receptor
Cobalt loading; Glutamate receptor; Excitatory amino acids; Membrane distribution; Developing cranial motoneurone (Launey, T. (781) 148)

Calcium spike
Medial preoptic nucleus; Calcium channel; Whole-cell patch clamp (Sundgren-Andersson, A.K. (783) 194)

Calcium wave
Astrocyte; Intercellular communication; Adrenergic receptor; Primary culture; Imaging (Muyderman, H. (793) 127)

Calmodulin
Amphetamine; Sensitization; Rat; Environment (Ostrander, M.M. (797) 339)

Associative learning; Classical conditioning; Adenylyl cyclase; Calcium; Coincidence detector (Lin, A.H. (800) 300)

Calmodulin-dependent protein kinase II
Noradrenaline uptake; Noradrenaline transporter; Calcium ion; Myosin light chain kinase; PC12 cell (Uchida, J. (809) 155)

Calorie restriction
Sympathetic nervous system; Aortic constriction; Hypothalamus (VanNess, J.M. (792) 237)

Calpain
Hippocampus; Glutamate receptor; Seizure; Kainate (Bi, X. (781) 355)

Optic neuritis; Optic nerve; Neutral proteinase; Experimental allergic encephalomyelitis (Shields, D.C. (784) 299)

Glutamate; Receptor; Plasticity; Calcium; Hippocampus (Bi, X. (790) 245)

Calpastatin; Calcium; Neutral proteinase; Experimental allergic encephalomyelitis; Multiple sclerosis (Shields, D.C. (794) 68)

Glutamate; Receptor; Phosphorylation; Plasticity (Bi, R. (797) 154)

Cerebral ischemia; Microtubule-associated protein; Neuronal degeneration (Minger, S.L. (810) 181)

Calpain proteolysis
Spectrin; Silver stain; Selective vulnerability; Delayed cell death; Hippocampus; Field potentials; Cytoskeleton (Bartus, R.T. (790) 1)

Calpastatin
Calpain; Calcium; Neutral proteinase; Experimental allergic encephalomyelitis; Multiple sclerosis (Shields, D.C. (794) 68)

Calphostin C
Formalin-induced nociception; Protein kinase C; Phorbol-12,13-dibutyrate; Diabetes; Mouse (Ohsawa, M. (803) 198)

Calretinin
Regeneration; Ruffini ending; Mechanoreceptor; Periodontal ligament; Inferior alveolar nerve; Rat (Hiroshima, K. (807) 218)

Calyculin A
Cochlear outer hair cell; Chloride channel; Potassium channel; Calcium calmodulin-dependent protein kinase II; Protein phosphatase; *N*-acetylsphingosine (Minamino, M. (781) 275)

CaM kinase II
Tau protein; Hen; Diisopropyl phosphorofluoridate; Phosphorylation; Organophosphorus-induced delayed neurotoxicity (Gupta, R.P. (813) 32)

Ca^{2+} mobilization
Voltage-dependent Ca^{2+} channel; Surface potential; Whole-cell voltage-clamp (Ohta, T. (814) 99)

cAMP
Central chemoreceptor; Respiration; Glutamate; GABA; Calcineurin (Miura, M. (780) 34)

Carotid body; Glomus cells; Intercellular coupling; Hypoxia; Acidity; Voltage clamping; Microelectrodes (Abudara, V. (792) 114)

Glutamate; Aspartate; Microdialysis; cGMP; Protein kinase; Pain; Dorsal horn; Hyperalgesia (Sluka, K.A. (798) 281)

Neuronal; NTera-2; Differentiation; Promoter (Fennell, M. (799) 243)

Rat; Adrenal chromaffin cell; Catecholamine release; Intracellular calcium (Anderova, M. (809) 97)

Glutamate; VIP; Retinal cell culture; Neurotoxicity (Shoge, K. (809) 127)

CA1 neuron
Hippocampus; Patch-clamp; Bepridil; Potassium current (Hu, H. (809) 149)

CA3 neurons of hippocampus
Self-stimulation reward; Thorny excrescences; Mossy fibers (Shankaranarayana Rao, B.S. (804) 320)

Cannabinoid
Calcium channel; Hippocampus; Patch-clamp (Shen, M. (783) 77)

Anandamide; Basal ganglia; CP 55,940; Circling; Marijuana; Movement; THC (Miller, A.S. (793) 7)

Δ^9-THC; Anandamide; c-*fos*; Hypothalamus; Rat (McGregor, I.S. (802) 19)

Δ^9-Tetrahydrocannabinol; Perinatal exposure; Intravenous morphine self-administration; Opiate; Opioid neuron; Opioid receptor; Reinforcement; Drug addiction (Vela, G. (807) 101)

Formalin; Pain; Hyperalgesia; SR141716A (Strangman, N.M. (813) 323)

Cannabinoid receptor
G-protein coupled receptor; Leech; Melanocortin receptor; Adrenocorticotropic hormone receptor (Elphick, M.R. (780) 170)

Nitric oxide; GnRH; CRH; Opiate receptor; Opioid; Median eminence; Hypothalamus (Prevot, V. (790) 236)

Brain; Chronic EtOH; Anandamide; Down-regulation (Basavarajappa, B.S. (793) 212)

FOS; Immunocytochemistry; Arachidonylethanolamide; Marijuana (Patel, N.A. (797) 225)

Opioid-receptor; Adenylyl cyclase; GTP-binding protein; Desensitization; Pertussis toxin (Shapira, M. (806) 26)

Capillary patency
Hyperglycemia; Cerebral ischemia; Fluorescent double staining; Cerebral blood flow; Microcirculation (Li, P.-A. (782) 175)

Hyperglycemia; Focal ischemia; Pathology; Leukocyte; Cerebral blood flow (Li, P.-A. (804) 36)

Capsaicin
Primary afferent depolarization; Serotonin (5-HT); GABA; Nociceptive afferent; Spinal dorsal horn (Khasabov, S.G. (789) 339)

Hyperalgesia; Allodynia; Visible flare; Thermography; Blood flow (Mohammadian, P. (792) 1)

Allodynia; Hyperalgesia; Inflammation; Pain; Tactile perception; Touch; Vibration (Kauppila, T. (797) 361)

DNIC; Allodynia; Neuropathic pain (Witting, N. (801) 206)

Lower urinary tract; Spinal cord; Immediate early gene; Nociception; K^+-channel-opener (Yu, Y. (807) 11)

Nerve injury; Primary neuron; Apoptosis; Trigeminal ganglion; Nerve growth factor (Sugimoto, T. (807) 147)

Captopril
Fos; Egr-1; Intracerebroventricular renin; SFO; AT_1 and AT_2 receptors (Xu, Z. (782) 24)

CA3 pyramidal neuron
(−) Deprenyl; Primate brain region; AChE activity; MAO-A; MAO-B; Dendritic morphology (Lakshmana, M.K. (796) 38)

(−) Deprenyl; Primate brain region; AChE activity; MAO-A; MAO-B; Dendritic morphology (Lakshmana, M.K. (796) 38)

Ischemia; Electrophysiology; Hippocampus; In vivo; Dentate granule cell (Howard, E.M. (798) 109)

Carbachol
Autoradiography; Cholinergic system; Galanin; Substantia innominata; Cerebral blood flow (Barbelivien, A. (789) 92)

Rat; Acetylcholine; Pedunculopontine tegmental nucleus; Nucleus pontis oralis; REM sleep; Electroencephalogram; Cortex; Hippocampus (Kinney, G.G. (809) 307)

Carbamazepine
Lithium; G-protein; Gene regulation (Jakobsen, S.N. (780) 46)

Carbocyanine
Choline acetyltransferase; $p75^{NTR}$, Basal forebrain, In vivo labelling; Rat (Härtig, W. (808) 155)

Carbon dioxide
Ammonia; Signal transduction; pH_i; Acidosis; Alkalosis (Yoshii, K. (791) 257)

Carbonic anhydrase isozyme II
Ruffini ending; Mechanoreceptor; Periodontal ligament; Rat (Ochi, K. (779) 276)

Carbon monoxide
Cortical spreading depression; Energy metabolism; DC potential; Mitochondrial NADH (Meilin, S. (780) 323)

(2*S*,3*S*,4*S*)-α-(Carboxy-cyclopropyl)-glycine
Metabotropic glutamate receptors; Long-term potentiation; Dentate gyrus; (*RS*)-2-Chloro-5-hydroxyphenylglycine; 1*S*,3*R*-1-Aminocyclopentate-1,3-dicarboxylic acid; L-2-Amino-4-phosphono butyric acid (O'Leary, D.M. (809) 91)

Cardiac function
Autonomic nervous system; Defense reaction; Emotion; Fight-or-flight response; Lateral hypothalamic area; Paraventricular hypothalamic nucleus; Periaqueductal gray matter; Precommissural nucleus; Pseudorabies virus; Raphe magnus nucleus (Farkas, E. (792) 179)

Cardiac ganglia
Cardioinhibitory neuron; Heart; Parasympathetic nervous system; Vagus nerve; Ventricular contractility (Blinder, K.J.L. (810) 251)

Cardiac ganglion
Cardioinhibitory neuron; Bradycardia; Congestive heart failure; Heart; Myocardial contractility; Parasympathetic nervous system; Vagus nerve (Blinder, K.J. (804) 325)

Cardiac nociception
Phrenic afferent fiber; Cervical spinal cord; Pericardium; Diaphragm (Chandler, M.J. (798) 93)

Cardiac pain
Reperfusion; Heart; Ischemia; Afferent; Reflex; Autonomic (Gutterman, D.D. (790) 293)

Cardiac-related rhythm
Baroreceptor reflex; Cat; Forced oscillation; Sympathetic nerve discharge (Zhou, S.-Y. (780) 155)

Cardioinhibitory neuron
Bradycardia; Cardiac ganglion; Congestive heart failure; Heart; Myocardial contractility; Parasympathetic nervous system; Vagus nerve (Blinder, K.J. (804) 325)

Cardiac ganglia; Heart; Parasympathetic nervous system; Vagus nerve; Ventricular contractility (Blinder, K.J.L. (810) 251)

Cardiopulmonary reflex
Central 5-HT_3 receptor; Nucleus tractus solitarius (Pires, J.G.P. (791) 229)

Cardiovascular
Parasympathetic; Nucleus tractus solitarius (Neff, R.A. (792) 277)

Cardiovascular control
Rostral ventrolateral medulla; Reticulospinal neuron; Sympathetic nervous system; Intrareticular circuit; Anterograde/retrograde axonal tracer (Granata, A.R. (781) 329)

Tyrosine phosphorylation; Brainstem; Baroreceptor; Blood pressure; Anaesthetized rat (Man, H.-Y. (792) 141)

Cardiovascular regulation
Autonomic nervous system; Emotion; Defense reaction; Pain; Periaqueductal gray matter; Precommissural nucleus; Pseudorabies virus; Stellate ganglion (Jansen, A.S.P. (784) 329)

Ventromedial nucleus of the hypothalamus; Paradoxical sleep; Rat (Hirasawa, M. (797) 103)

Cardiovascular response
Acoustic startle; Airpuff startle; Latency to peak (Palmer, A.A. (787) 91)

Cardiovascular system
Brain stem; Hypovolemia; Fos-protein; Blood pressure (Anselmo-Franci, J.A. (799) 278)

Carotid body
Intracellular calcium; Dopamine; Perfusion; Hypoxia; K^+–O_2 current (Roy, A. (785) 228)

Acetylcholine; Arterial chemoreceptors; Carotid (sinus) nerve; Petrosal ganglion; Sensory ganglion (Alcayaga, J. (786) 47)

K^+ channel; Ca^{2+} channel; Hypoxia; Chemotransduction; Arachidonic acid (Hatton, C.J. (787) 315)

Glomus cells; Intercellular coupling; Hypoxia; Acidity; cAMP; Voltage clamping; Microelectrodes (Abudara, V. (792) 114)

Nitric oxide synthase; Hypoxia; Chemoreception; Immunohistochemistry; Rat (Kusakabe, T. (795) 292)

Glomus cell; Intracellular sodium; Voltage clamp; Hypoxia; Cobalt; Barium; TTX (Jiang, R.-G. (797) 197)

Arterial chemoreceptor; Cyanide; Dopamine; Hyperoxia; Nitric oxide (Iturriaga, R. (799) 26)

Ca^{2+} channel-blocker; Cytochrome a_3^{2+}; Intracellular Ca^{2+} store; Metabolic inhibition; O_2 chemoreception model (Mokashi, A. (803) 194)

Chronic hypoxia; Regulatory neuropeptide; Immunohistochemistry; Rat (Kusakabe, T. (806) 165)

Substance P; CGRP; TuJ1-immunoreactive fiber; Chicken; Vagus nerve (Kameda, Y. (807) 246)

Hypoxia; Chronic hypoxia; K^+ current; Ca^{2+} current (Carpenter, E. (811) 79)

Carotid sinus nerve
Baroreceptor; Chemoreceptor; Histochemistry; Immunocytochemistry; Synapse; Transganglionic transport; Ultrastructure (Massari, V.J. (785) 329)

Acetylcholine; Arterial chemoreceptors; Carotid body; Petrosal ganglion; Sensory ganglion (Alcayaga, J. (786) 47)

Carp
Bipolar cell; Color opponency; GABA; GABA receptor; Retina (Zhang, D.-Q. (792) 319)

Carrageenan-induced inflammation
Chronic neuropathy; Hyperalgesia; Allodynia; Spinalization; Nocifensive reflex (Kauppila, T. (797) 234)

Carrageenin
Inflammation; Central sensitization; Rat; Paw pressure; Lidocaine (Kayser, V. (794) 19)

Antinociception; c-Fos; Morphine tolerance; Spinal cord; Dose–response (Le Guen, S. (813) 128)

Cartography
Indoleamine; Wild mouse; Deermouse; Photoperiod; Neuroendocrine; Hypothalamus (Phelix, C.F. (808) 197)

Cartwheel cell
Dorsal cochlear nucleus; Endogenous acetylcholine; Spontaneous activity; Diisopropyl fluorophosphate; Fusiform cell (Chen, K. (783) 219)

Casein kinase II
Protein kinase C; B-50 (GAP-43); Protein phosphatase (Dokas, L.A. (781) 320)

Caspase
Cerebellar granule cell; Apoptosis; ICE family protease; CPP32 (Harada, J. (793) 231)

Alzheimer's disease; Dendritic spine; Mitochondrial transmembrane potential; Oxidative stress; Phosphatidylserine; Synaptosome (Mattson, M.P. (807) 167)

Caspase family
Alzheimer's disease; Temporal cortex; Hippocampus; Bcl-2 family; Human neuroblastoma cell line SH-SY5Y (Kitamura, Y. (780) 260)

Ca^{2+} store
Opioid; Intracellular Ca^{2+}; DADLE; IP_3; δ receptor; Kinase (Yoon, S.H. (802) 9)

Castration
Male rat; Dopamine; Amphetamine; Medial preoptic area; Bed nucleus of stria terminalis; Caudate putamen; Amygdala; Microdialysis (Du, J. (782) 11)

Cat
Tirilazad; Soleus; Motor nerve terminal; Posttetanic potentiation; Edrophonium; Repetitive discharge (Hall, E.D. (779) 346)

Baroreceptor reflex; Cardiac-related rhythm; Forced oscillation; Sympathetic nerve discharge (Zhou, S.-Y. (780) 155)

Defense rage behavior; Hypothalamus; GABA; $GABA_A$ receptor; Muscimol; Bicuculline; Fluoro-Gold; Immunocytochemistry (Cheu, J.W. (783) 293)

Traumatic brain injury; Cytoskeleton; Neurofilament; Phosphorylation; Calcium (Okonkwo, D.O. (784) 1)

Masseteric motoneuron; Trigeminal motor nucleus; HRP; IPSP; EPSP; Dendritic arbor (Kamogawa, H. (785) 18)

Muscle afferent; Hindlimb; Motoneuron; Spinal cord; Tail (Wada, N. (788) 327)

External anal sphincter; Electromyographic recording technique; Noradrenergic neuron; Adrenoceptor; Locus coeruleus; Opioid (Abysique, A. (795) 147)

Cholecystokinin; CCK receptor; Hypothalamus; Midbrain periaqueductal gray; Defensive rage; Predatory attack (Luo, B. (796) 27)

Neurofilament; Electron microscopy; Dorsal column nucleus; Aging (Zhang, J.-H. (797) 333)

Exercise pressor reflex; Excitatory amino acid; Spinal cord; Muscle afferent neuron; Blood pressure (Wilson, L.B. (807) 222)

Catalase
Glucocorticoid; Superoxide dismutase; Glutathione peroxidase; Kainic acid; Hippocampus; Cortex; Liver (McIntosh, L.J. (791) 209)

Glucocorticoid; Superoxide dismutase; Glutathione peroxidase; Kainic acid; Hippocampus (McIntosh, L.J. (791) 215)

Catecholamine
PNMT; Hypothalamus; Rat; mRNA; RT-PCR (Andreassi II, J.L. (779) 289)

1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine; Neurotoxicity; Goldfish brain; Amino acidic neurotransmitter (Lucchi, R. (782) 105)

Medullary visceral zone; Habenular nucleus; Fos; Tyrosine hydroxylase; Rat (Li, T. (783) 51)

K-NPPase cytochemistry; Choroid plexus; Inovan; Dopamine; Na–K ATPase (Kanoh, N. (787) 154)

RVLM; Pacemaker; Adrenoceptor; Sympathetic nervous system (Piguet, P. (796) 1)

Neurotoxin; Exocytosis; Amperometry; Cytosolic Ca (Liu, J. (799) 55)

Head trauma; Contusion; Cerebral edema; Somatosensory cortex (Dunn-Meynell, A.A. (800) 245)

Heart; Histochemistry; Immunocytochemistry; Intrinsic cardiac ganglion; Synapse; Transganglionic transport; Ultrastructure; Vagus nerve (Massari, V.J. (802) 205)

Amphetamine; Limbic system; Seizure; Neurodegeneration; Glutamate; Basal ganglia (Bowyer, J.F. (809) 77)

Catecholamine neurons
2-Deoxy-D-glucose; Adrenal medulla; c-*fos*; Rat; Glucoprivation; Epinephrine; Norepinephrine (Ritter, S. (805) 41)

Catecholamine release
Ibogaine mechanism; Nicotinic acetylcholine receptor; Anti-addictive agent; Chromaffin cell (Mah, S.J. (797) 173)

Rat; Adrenal chromaffin cell; Intracellular calcium; cAMP (Anderova, M. (809) 97)

Catecholamines
Lateral septum; α_2-Adrenoceptor; Norepinephrine (Liu, W. (806) 36)

Caudal brainstem
Metabolism; Vagus nerve; Metabolic inhibition; Feeding (Horn, C.C. (801) 107)

Caudate
Kindling; Seizure; Temporal lobe epilepsy; Fear; Defensive behavior; Hippocampus; Amygdala (Kalynchuk, L.E. (779) 149)

Caudate nucleus
Chronoamperometry; Rat; Reaction-time task; Auditory stimulation; Monoamine; Dopamine; Phasic response (Shinba, T. (781) 284)

Substantia nigra pars reticulata; Prefrontal cortex; Motor cortex; Putamen; Subthalamic nucleus; Thalamus; Monkey (Kitano, H. (784) 228)

Behavior; Cingulate cortex; Cocaine; Genotype; Nucleus accumbens (Baumann, M.H. (804) 316)

Caudate putamen
Male rat; Castration; Dopamine; Amphetamine; Medial preoptic area; Bed nucleus of stria terminalis; Amygdala; Microdialysis (Du, J. (782) 11)

Aging; Autoradiography; Olfactory tubercle; Bed nucleus of the stria terminalis; Ventromedial hypothalamic nucleus; Rat brain (Arsenijevic, Y. (785) 167)

Quinpirole; c-*fos*; Shuttle box; Striatum; Dopamine; D_2 receptor; Immediate-early genes (Struthers, W.M. (785) 347)

5-Hydroxytryptamine; Cortex; Paraventricular nucleus; Bed nucleus; Amygdala; Brainstem (Javed, A. (791) 67)

Auditory cortex; Cholinergic; EEG; Globus pallidus; Receptive field; Response suppression (Chernyshev, B.V. (793) 79)

Globus pallidus; Nociception; Thermal stimulation; Electrophysiology; Rat (Chudler, E.H. (812) 283)

Corticosterone; Mesocorticolimbic dopamine system; Medial prefrontal cortex; Nucleus accumbens; Shell; cocaine (Ikemoto, S. (814) 171)

Caveolae
Caveolin; Brain; Astrocytes (Ikezu, T. (804) 177)

Caveolin
Caveolae; Brain; Astrocytes (Ikezu, T. (804) 177)

C5b-9
Alzheimer's disease; β-Amyloid peptide; Complement activation; MAC; Complement inhibitor; CD59; Neurodegeneration; Cytotoxicity (Shen, Y. (796) 187)

C57BL/6
Radial-arm maze; BXSB; NZB; Inbred mice; Working memory; Reference memory; Spatial; Learning; Memory load; Win-shift (Hyde, L.A. (785) 236)

C57BL/6N mouse
Poly(ADP-ribose) polymerase (PARP); 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); Nicotinamide adenine dinucleotide (NAD^+); Adenosine triphosphate (ATP); Benzamide (Cosi, C. (809) 58)

CB_1 receptor
Δ^9-Tetrahydrocannabinol; Hippocampus; Microdialysis; Acetylcholine; SR141716A (Carta, G. (809) 1)

CCK receptor
Cholecystokinin; Hypothalamus; Midbrain periaqueductal gray; Defensive rage; Predatory attack; Cat (Luo, B. (796) 27)

***CCrSQTL*$_1$**
Corpus callosum; Mouse; Gene mapping; *CCrSQTL*$_2$ (Le Roy, I. (811) 173)

***CCrSQTL*$_2$**
Corpus callosum; Mouse; Gene mapping; *CCrSQTL*$_1$ (Le Roy, I. (811) 173)

CD39
Ecto-apyrase; ATP (Wang, T.-F. (790) 318)

CD59
Alzheimer's disease; β-Amyloid peptide; Complement activation; C5b-9; MAC; Complement inhibitor; Neurodegeneration; Cytotoxicity (Shen, Y. (796) 187)

Cd^{2+}
Adrenal chromaffin cell; Cytosolic Ca^{2+} concentration; Fura-2; Co^{2+}; 1,4,5-IP_3 (Yamagami, K. (798) 316)

CD40
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CD34
Glial development; Immunocytochemistry; Human fetal brain; CD68; EBM-11; RCA-1; Lectins (Andjelkovic, A.V. (814) 13)

CD68
Glial development; Immunocytochemistry; Human fetal brain; EBM-11; CD34; RCA-1; Lectins (Andjelkovic, A.V. (814) 13)

CD11b/CD18 integrin
Hookworm-derived recombinant neutrophil inhibitory factor; Cerebral ischemia; Neutrophil; Neuronal damage; Rat (Jiang, N. (788) 25)

[^{14}C]-2-deoxyglucose
D_3 dopamine receptor; 7-OH-DPAT; Nafadotride; Local cerebral glucose utilization; Rat; Brain (Levant, B. (812) 193)

2-D-[^{14}C]deoxyglucose
Bicuculline; Early seizure; Rat; Quantitative autoradiography; Brain functional deficit (Doriat, J.-F. (800) 114)

2-[^{14}C]deoxyglucose method
Ethanol; Self-administration; Sucrose; Reinforcement; Cerebral metabolism (Porrino, L.J. (791) 18)

Cdk5
GSK-3; MAP kinase; Hyperphosphorylated tau; Neurofibrillary tangles; Alzheimer's disease (Pei, J.-J. (797) 267)

Cebus apella
Melanin-concentrating hormone; Lateral hypothalamic area; Zona incerta; Monkey brain; Neuropeptides (Bittencourt, J.C. (804) 140)

Cell Adhesion Molecules
Hippocampus; Long-term potentiation; Seizure; Plasticity (Hoffman, K.B. (811) 152)

Cell–cell interaction
Adenohypophysis; Nicotinamide adenine dinucleotide phosphate diaphorase; Nitric oxide; Nitric oxide synthase (Okere, C.O. (784) 337)

Cell culture
Zinc; Calcium; Glutamate; Neurotoxicity; Timm's staining; Cobalt; Co^{2+} (Yin, H.Z. (781) 45)

Cerebral endothelium; Ischemia–reperfusion; Oxygen free radical; Oxypurinol; Superoxide dismutase (Beetsch, J.W. (786) 89)

Schwann cell; Macrophage; Wallerian degeneration; Silica (Kubota, A. (802) 254)

Astrocyte; Gliosis; Neuroglia; Cytokine; CNTF (Levison, S.W. (803) 189)

Medial septum; Cholinergic neuron; GABA receptor; Choline acetyltransferase (ChAT) (Kenigsberg, R.L. (805) 123)

Cell cycle
DNA repair; Programmed cell death; Neurotrophin; Neuronal cell death (Araki, T. (794) 239)

Cell death
MoMuLV (Moloney murine leukemia virus)-*ts*1; Central nervous system; Neurodegeneration; Cytokine; Tumor necrosis factor α; Fas; Fas ligand (Choe, W. (779) 1)

Hypertensive eyes; Intraocular pressure; Retina; Retinal ganglion cells (Laquis, S. (784) 100)

Alzheimer disease; Hippocampus; Calcium; β-amyloid; Picrotoxin (Graf, R.A. (786) 115)

GH3 cell; MPP^+; Neurotrophic factor (Yoshinaga, N. (794) 137)

Dopaminergic; Neurodegeneration; Tyrosine kinase; Neuron (Walker, D.G. (794) 181)

Deafferentation; Nucleus magnocellularis; Auditory system; Cochlear nucleus; Ribosome (Hyson, R.L. (809) 214)

Cell death / apoptosis
Opiate drug abuse; Neuroblast division; Cerebellar granule cell; Naloxone; μ-Opioid receptor (Opanashuk, L.A. (804) 87)

Cell infiltration
GDNF; GDNFR-α; Peripheral neuropathies; Axonopathy (Yamamoto, M. (809) 175)

Cell morphology
Songbird; Dendrite; Spine (Benton, S. (799) 138)

Cell polarity
Blood–CSF-barrier; Choroid plexus epithelial cell culture; Active transport; Organic anion exchanger; Fluid secretion (Hakvoort, A. (795) 247)

Cell proliferation
Epilepsy; Seizure; Kainic Acid; Hippocampus; Granule cell (Gray, W.P. (790) 52)

Cell renewal mRNA
Corneal epithelium; Limbal epithelium; Conjunctival epithelium; Opioid; [Met^5]-enkephalin; Preproenkephalin; Eye; In situ hybridization (Zagon, I.S. (792) 72)

Cell respiration
Glutamate; Neurotoxicity; Nitric oxide; Mitochondria; Glutathione (Almeida, A. (790) 209)

Cell swelling
Astrocyte; Methylmercury; Sodium; Potassium; Aspartate; Amiloride; In vitro (Aschner, M. (799) 207)

Astrocyte; Rat; Methylmercury; Taurine; Myoinositol; Amiloride; In vitro (Aschner, M. (811) 133)

Astrocytes; Rat; Methylmercury; Na^+; K^+; In vitro (Aschner, M. (813) 254)

Central
Glucagon-like peptide-1 (GLP-1); Fragment; Feeding behavior; Chicken (Furuse, M. (807) 214)

Central α_2-adrenoceptor sensitivity
Jaw-opening reflex; Chronic variable stress; Rat (García-Vallejo, P. (801) 72)

Central alpha$_2$-adrenoceptor
Clonidine; Pressor response; Ageing; Conscious rat (Kawasaki, H. (782) 333)

Central amygdala
Locus coeruleus; Opioid withdrawal; Opiate withdrawal; Cerebral glucose metabolism; Opioid abstinence; Rat; Intracerebral injections; Methylnaloxonium (Kimes, A.S. (814) 1)

Central amygdala nucleus
Amygdala; Corticotropin-releasing hormone; In situ hybridization; mRNA; Neuropeptide; Paraventricular nucleus; Stress (Hsu, D.T. (788) 305)

Central amygdaloid nucleus
Lateral bed nucleus of the stria terminalis; Insular cortex; Thalamic paraventricular nucleus; Extracellular recording; Electrical stimulation (Veinante, P. (794) 188)

Central change
Subcutaneous bee venom injection; Persistent pain; c-Fos expression; Dorsal horn; Immunohistochemistry; Morphine; Rat (Luo, C. (806) 175)

Central chemoreceptor
Respiration; Glutamate; GABA; Calcineurin; cAMP (Miura, M. (780) 34)

Central chemosensitivity
Calcium; Magnesium; Control of breathing; Neonatal rat; Isolated brainstem–spinal cord preparation (Kuwana, S.-i. (786) 194)

Central 5-HT$_3$ receptor
Cardiopulmonary reflex; Nucleus tractus solitarius (Pires, J.G.P. (791) 229)

Central nervous system
MoMuLV (Moloney murine leukemia virus)-*ts*1; Neurodegeneration; Cytokine; Cell death; Tumor necrosis factor α; Fas; Fas ligand (Choe, W. (779) 1)

Parathyroid hormone-related protein; Monoclonal antibody; Blood pressure; Sympathetic nervous system (Nagao, S. (785) 75)

Myelin basic protein; Transgenic mouse; *Shiverer*; Gene therapy; Myelinogenesis (Kimura, M. (785) 245)

Adenovirus; Gene therapy; β-Galactosidase; Spinal cord; Motor neurons; Subarachnoid; MUG (Mannes, A.J. (793) 1)

Immunohistochemistry; Co-localisation; Antipeptide antibody; Retrograde tracer; Analgesia (Schindler, M. (798) 25)

Microinjection; Renal sympathetic nerve activity; Sympathetic nervous system (Matsumura, K. (798) 232)

1,25-Dihydroxyvitamin D_3 receptor; Rat; Fetal; Development (Veenstra, T.D. (804) 193)

Angiotensin type-2 receptor; Glutamate; Cortical neuron; Nitric oxide (Makino, I. (804) 296)

Allodynia; Cerebral inflammation; Hyperalgesia; Lipopolysaccharide; Nociception (Cahill, C.M. (808) 13)

D-aspartic acid; D-amino acid; Immunohistochemistry; Neuron; Neurogenesis (Sakai, K. (808) 65)

P2X receptor; Purinoceptor; ATP; Hypothalamus; Brain (Xiang, Z. (813) 390)

Central nucleus of the amygdala
Paraventricular nucleus; DAMGO; Naltrexone; Food intake (Giraudo, S.Q. (782) 18)

Devazepide; Paraventricular nucleus of the hypothalamus; Nucleus of the solitary tract; Arcuate nucleus; Fasting (Wang, L. (791) 157)

Nucleus of the solitary tract; DAMGO; Naltrexone; Food intake (Giraudo, S.Q. (802) 184)

Central pain
Chromaffin cell; Allodynia; Allograft; Quisqualic acid (Brewer, K.L. (798) 83)

Central pattern generator
Stomatogastric ganglion; Neuromodulation; Dopamine (Ayali, A. (794) 155)

Central regulation of salivation
Salivary gland; Viral tracing; Organum vasculosum of the lamina terminalis; Subfornical organ; Median preoptic nucleus; Preoptic area; Insular cortex (Hübschle, T. (806) 219)

Central sensitization
Inflammation; Carrageenin; Rat; Paw pressure; Lidocaine (Kayser, V. (794) 19)

Central tegmental field
Amygdala; Early immediate gene; Sex behavior; Testosterone (Gréco, B. (781) 15)

Centrifugal fiber
Retina; GABA; Ganglion cell; Development; Lamprey (Anadón, R. (782) 297)

Cerebellar
Parallel fiber; Length; Cerebellum; Rapid Golgi (Huang, C.-m. (801) 211)

Cerebellar culture
GAP-43; Cerebellum; GABA; Glutamate; Granule cell; Northern hybridization; In situ hybridization; mRNA; Development (Consolé-Bram, L.M. (783) 316)

Laminin; Granuloprival culture; Purkinje cell; Dendritic spine; Dendrite; Astrocyte; Neurite promoting factor; Synapse; Development; Regeneration (Seil, F.J. (795) 112)

Cerebellar granule cell
AMPA; Rat; Metabolic inhibition; Neurotoxicity; Cyanide, NaCN; DNA fragmentation; Glutamate; $[Ca^{2+}]_i$ (Cebers, G. (779) 194)

Apoptosis; ICE family protease; CPP32; Caspase (Harada, J. (793) 231)

Opiate drug abuse; Neuroblast division; Cell death/apoptosis; Naloxone; μ-Opioid receptor (Opanashuk, L.A. (804) 87)

Apoptosis; Purinoceptor; Adenosine; ADP (Vitolo, O.V. (809) 297)

Cerebellar granule neuron
Activity-dependent survival; Calcium influx; Calcium efflux; Endocytosis (Kohara, K. (809) 231)

Cerebellar mutant mice
Ataxia; D-cycloserine; D-serine ethylester; Glycine-binding site; Open field study (Saigoh, K. (808) 42)

Cerebellum
Norepinephrine; Learning; Attention; Locus coeruleus; Hippocampus (Gould, T.J. (780) 174)

GAP-43; GABA; Glutamate; Cerebellar culture; Granule cell; Northern hybridization; In situ hybridization; mRNA; Development (Console-Bram, L.M. (783) 316)

Brain slice; Superior colliculus; Hippocampus; Anoxia; Adenosine; Inosine; Hypoxanthine; ATP (Yamada, T. (787) 220)

Advanced glycation end product; Dog; Neuron; Aging; Purkinje cell (Weber, K. (791) 11)

Receptor autoradiography; In situ hybridisation; Xanthine; Striatum; Dopamine (Fredholm, B.B. (791) 177)

Interleukin; Tumor necrosis factor; Leptin; Neuropeptide Y; Opioid; Glucocorticoid; Corticotropin; Endotoxin; Nervous system; Hippocampus; Hypothalamus; Feeding; Food intake; RNase protection; Competitive RT–PCR (Gayle, D. (795) 77)

Glucose; Insulin; *db / db* mouse; Granule cell; Exercise (Vannucci, S.J. (797) 1)

Tetrahydrocannabinol; Cerebral blood flow; Positron emission tomography; Cerebral metabolism; Temporal disintegration; Anterior cingulate (Mathew, R.J. (797) 183)

Niemann–Pick type C disease; L-DOPA; Serotonin; Glycine; Tyrosine hydroxylase (Yadid, G. (799) 250)

Alcohol; Fetal alcohol effects; Motor learning; Plasticity (Klintsova, A.Y. (800) 48)

Adenylyl cyclase; β-Adrenergic receptor; Aging; Dexamethasone; Glucocorticoid (Slotkin, T.A. (800) 236)

Parallel fiber; Length; Cerebellar; Rapid Golgi (Huang, C.-m. (801) 211)

Classical conditioning; Nictitating membrane; α-Amino-3-hydroxy-5-methylisoxazole-4-propionic acid; 6-Cyano-7-nitroquinoxaline-2,3-dion; Quisqualate receptor; Autoradiography (Hauge, S.A. (803) 9)

Vestibular compensation; Protein kinase C; Labyrinthectomy; Purkinje cell; Signal transduction protein (Balaban, C.D. (804) 253)

Motivation; Exploration; Habituation; Lurcher mutant mouse (Caston, J. (808) 232)

cGMP; Alpha-2 adrenergic agonist; Dexmedetomidine; Opioid; Fentanyl; G protein; Pertussis toxin; Mouse (Vulliemoz, Y. (813) 26)

Cerebral artery
Vasodilatation; Nitric oxide; Guanylate cyclase; Cyclic GMP; Potassium channel (Onoue, H. (785) 107)

Cerebral blood flow; Cerebral ischemia, focal; Laser-Doppler flowmetry; Rat (Herz, R.C.G. (793) 289)

Cerebral blood flow
Rat; Brain; Cerebral metabolic rate; Glycine; Antagonist; N-methyl-D-aspartate (Morimoto, Y. (779) 170)

EEG burst suppression; Multiparametric brain monitoring; Cerebral ischemia; Mitochondrial redox state; Extracellular K^+; Ischemic depolarization (Zarchin, N. (780) 230)

FK506; FK506 binding protein; Calcineurin; Cerebral ischemia; Gerbil (Nozaki, H. (781) 1)

Hyperglycemia; Cerebral ischemia; Capillary patency; Fluorescent double staining; Microcirculation (Li, P.-A. (782) 175)

Subarachnoid hemorrhage; Autoregulation; Vasospasm; Rat (Yamamoto, S. (782) 194)

5-Hydroxytryptamine; Brain; Migraine; Ritanserin (Gold, L. (783) 188)

Autoregulation; Hypothermia; Awake rat; Autoradiography (Niwa, K. (789) 68)

Autoradiography; Carbachol; Cholinergic system; Galanin; Substantia innominata (Barbelivien, A. (789) 92)

Middle cerebral artery occlusion; Intraluminal occluding thread; Cerebral ischemia; Laser–Doppler flowmetry; Rat (Herz, R.C.G. (791) 223)

Cerebral artery; Cerebral ischemia, focal; Laser-Doppler flowmetry; Rat (Herz, R.C.G. (793) 289)

Heatstroke; Glutamate; NMDA receptor antagonist (Yang, Y.-L. (795) 121)

Tetrahydrocannabinol; Positron emission tomography; Cerebral metabolism; Temporal disintegration; Cerebellum; Anterior cingulate (Mathew, R.J. (797) 183)

Hyperglycemia; Focal ischemia; Capillary patency; Pathology; Leukocyte (Li, P.-A. (804) 36)

Neuroprotection; Middle cerebral artery occlusion; Autoradiography; Image-processing (Huh, P.W. (804) 105)

Cerebral ischemia; Hypothermia; Microdialysis; Nitric oxide; Rat (Sugimura, T. (808) 313)

Middle cerebral artery; Estradiol; Hypometabolism; β-Amyloid precursor protein (Shi, J. (810) 87)

Cerebrovascular conductance; Sympathetic stimulation; Adrenergic activity; Norepinephrine (Diéguez, G. (813) 381)

Cerebral circulation
Newborn; Excitatory amino acid; Theophylline; Nitric oxide (Bari, F. (780) 237)

Newborn; Cyclic nucleotide (Armstead, W.M. (799) 44)

Cerebral cortex
Microsphere embolism; Noradrenaline release; Microdialysis; Synaptosomes; Synapsin I phosphorylation; Ischemia (Hayashi, H. (783) 241)

Claustrum; Sensory zone; Connection; Retrograde transport (Kowiański, P. (784) 199)

Histamine H_3 receptor; Iodophenpropit binding; Hippocampus; Noradrenaline release; Rat (Alves-Rodrigues, A. (788) 179)

Vasopressin; Calcium; IP_1; Calcium channel; Learning and memory (Son, M.C. (793) 244)

Circadian; Entrainment; Muscarinic; Suprachiasmatic; Rhythm; Hypothalamus; Receptor (Bina, K.G. (797) 143)

Adenosine receptor; CGS 21680; N^6-Cyclopentyladenosine; γ-Aminobutyric acid; Bicuculline; Picrotoxin (Phillis, J.W. (807) 193)

Ischemia; Microsphere embolism; Na^+/K^+-ATPase; Noradrenaline uptake; Synaptosome (Hayashi, H. (808) 190)

Rearing environment; Corpus callosum; MRI; Cognition; Rhesus monkey (Sánchez, M.M. (812) 38)

Cerebral edema
Fluid-percussion brain injury; Ifenprodil; Memory; Neurologic motor function; NMDA receptor blocker (Okiyama, K. (792) 291)

Head trauma; Catecholamine; Contusion; Somatosensory cortex (Dunn-Meynell, A.A. (800) 245)

Cerebral endothelium
Cell culture; Ischemia–reperfusion; Oxygen free radical; Oxypurinol; Superoxide dismutase (Beetsch, J.W. (786) 89)

Cerebral evoked potentials
Parkinson's disease; Reaction time; Simple reaction time; Choice reaction time; Bradykinesia; Akinesia (Kutukcu, Y. (799) 1)

Cerebral glucose metabolism
Locus coeruleus; Opioid withdrawal; Opiate withdrawal; Central amygdala; Opioid abstinence; Rat; Intracerebral injections; Methylnaloxonium (Kimes, A.S. (814) 1)

Cerebral inflammation
Allodynia; Central nervous system; Hyperalgesia; Lipopolysaccharide; Nociception (Cahill, C.M. (808) 13)

Cerebral ischemia
EEG burst suppression; Multiparametric brain monitoring; Mitochondrial redox state; Extracellular K^+; Cerebral blood flow; Ischemic depolarization (Zarchin, N. (780) 230)

Apoptosis; ICAM-1 (Soriano, S.G. (780) 337)

FK506; FK506 binding protein; Calcineurin; Cerebral blood flow; Gerbil (Nozaki, H. (781) 1)

Ca^{2+} channel blocker; Nicardipine; PDH activity; Energy metabolites (Katayama, Y. (781) 212)

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Cerebrovascular permeability
Neutrophil depletion; Blood–brain barrier; RP3 monoclonal antibody; Cerebritis; Tissue injury (Lo, W.D. (802) 175)

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c-*fos*
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c-*fos*
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*zif*268; Spinal trigeminal tract nucleus; Subnucleus oralis; Tooth pulp (Sugimoto, T. (794) 353)

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c-*fos*
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CGS 21680
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Chaotic mossy fiber stimulation
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Glial fibrillary acidic protein; Oxygen; Patch clamp; Potassium channel; Tyrosine hydroxylase (Chou, C.-L. (789) 229)

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Chemoreceptor projection site
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Chemoreceptor reflex
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Chicken brain
Iron regulatory protein; Bergmann glia; Purkinje cell; Immunohistochemistry (Cho, S.S. (794) 174)

Chloral hydrate
Dopamine neuron; Depolarization block; Chronic haloperidol; D-tubocurarine; Succinylcholine; Gallamine (Melis, M. (783) 127)

Chloride
Ethanol; $GABA_A$; GT1–7; Neuron; GnRH (Javors, M.A. (780) 183)

Chloride channel
Tamoxifen; Ischemia; Anion channel; Volume regulation; Cerebroprotection (Phillis, J.W. (780) 352)

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Chloride ion flux
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$GABA_A$ receptor; Sulfated steroids; 3α-hydroxy-5α-pregnan-20-one sulfate; Pregnenolone sulfate; Neurosteroid (El-Etr, M. (790) 334)

(*RS*)-2-Chloro-5-hydroxyphenylglycine
Metabotropic glutamate receptors; Long-term potentiation; Dentate gyrus; 1*S*,3*R*-1-Aminocyclopentate-1,3-dicarboxylic acid; (2*S*,3*S*,4*S*)-α-(Carboxy-cyclopropyl)-glycine; L-2-Amino-4-phosphono butyric acid (O'Leary, D.M. (809) 91)

***p*-Chlorophenylalanine**
Plasticity; NPY; 5-HT receptor; 5-7-DHT; Cortex; Rat (Compan, V. (795) 264)

1-(*m*-Chlorophenyl)-biguanide (mCPBG)
Antidepressant; ICS205-930; Forced swim test; Rat (Nakagawa, Y. (786) 189)

Choice reaction time
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Cholecystokinin
Microdialysis; Spinal cord; CI988; Axotomy; Rat (Gustafsson, H. (790) 141)

CCK receptor; Hypothalamus; Midbrain periaqueductal gray; Defensive rage; Predatory attack; Cat (Luo, B. (796) 27)

Cholecystokinin (CCK)
Rat brain; mRNA; Pentylenetetrazol (PTZ); Frontal cortex; Hippocampus; Epilepsy; Clonic (Takeda, K. (779) 320)

Cholera toxin
Aging; Preganglionic neuron; Confocal microscopy; Pregnancy; Pelvic innervation (Dering, M.A. (780) 245)

Cholera toxin B subunit
Pituitary adenylate cyclase activating polypeptide; Vasoactive intestinal polypeptide; Double immunofluorescent labeling; Dorsal vagal complex; Periaqueductal grey; Dorsal and linear raphe nuclei (Kozicz, T. (810) 211)

Cholesterol side-chain cleavage enzyme
17α-Hydroxylase/c17, 20-lyase; 3β-Hydroxysteroid dehydrogenase/Δ^5-Δ^4-isomerase; Messenger RNA expression; Neurosteroids; Postnatal life; Rat brain; Reverse transcription-polymerase chain reaction (Kohchi, C. (801) 233)

Choline
P75 neurotrophin receptor; Nerve growth factor; Basal forebrain; Spatial memory; Sex difference (Williams, C.L. (794) 225)

Choline acetyltransferase
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Neocortical atrophy; Nissl-staining; *Trans*-synaptic; Nicotinic (Meyer, E.M. (786) 252)

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Acetylcholine; AF64A; Cholinergic neuron; CPP binding; NMDA receptor; Striatum (Ikarashi, Y. (795) 215)

$p75^{NTR}$; Calbindin; Calcium-binding protein; Basal forebrain; Neostriatum; Raccoon (Tremere, L. (797) 351)

NADPH diaphorase; Nitric oxide synthase; Vasoactive intestinal polypeptide; Co-localization; Middle cerebral artery; Sphenopalatine ganglia; Pig (Yu, J.-G. (801) 78)

192 IgG-saporin; Acetylcholinesterase; Cholinergic basal forebrain neuron; Immunolesion; Nerve growth factor; Regeneration (Gu, Z. (801) 190)

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Choline acetyltransferase (ChAT)
Medial septum; Cholinergic neuron; GABA receptor; Cell culture (Kenigsberg, R.L. (805) 123)

Choline-containing-glycolipid
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Cholinergic
Auditory cortex; Caudate–putamen; EEG; Globus pallidus; Receptive field; Response suppression (Chernyshev, B.V. (793) 79)

Medial septum; Diagonal band; M_3 receptor; Acetylcholine; Basal forebrain (Liu, W. (805) 220)

Retrograde tracing; Anterograde tracing; Nitric oxide synthase; Tyrosine hydroxylase; CGRP (Sang, Q. (809) 253)

Cholinergic basal forebrain
Immunotoxin lesion; Neuropeptide Y; Somatostatin; Cortex; Rat; Alzheimer's disease (Zhang, Z.-J. (800) 198)

Cholinergic basal forebrain neuron
192 IgG-saporin; Acetylcholinesterase; Choline acetyltransferase; Immunolesion; Nerve growth factor; Regeneration (Gu, Z. (801) 190)

Cholinergic hypofunction
Colchicine; Nucleus basalis; *trk*; AChE; NGF; BDNF (Shaughnessy, L.W. (781) 62)

Cholinergic neuron
Acetylcholine; AF64A; Choline acetyltransferase; CPP binding; NMDA receptor; Striatum (Ikarashi, Y. (795) 215)

Medial septum; GABA receptor; Choline acetyltransferase (ChAT); Cell culture (Kenigsberg, R.L. (805) 123)

Cholinergic receptors
Morphine; Withdrawal; Abstinence; Blood pressure; Autoradiography; Reverse transcriptase polymerase chain reaction; Rostral ventrolateral medulla (Zhang, L.C. (803) 114)

Cholinergic structures
Alzheimer's disease; Olfactory bulb; Acetylcholinesterase; Amyloid immunohistochemistry (Kovacs, I. (789) 167)

Cholinergic system
Autoradiography; Carbachol; Galanin; Substantia innominata; Cerebral blood flow (Barbelivien, A. (789) 92)

Glutamatergic system; Regional cerebral blood flow; Regional metabolism; Positron emission tomography; Monkey brain (Tsukada, H. (796) 82)

Cholinoceptivity
Choline acetyltransferase; Immunohistochemistry; Cranial nerve motor nucleus; Spinal cord; Monkey (Ichikawa, T. (779) 96)

Chondroitin sulfate
Proteoglycan; Neurocan; Rat brain; Perineuronal net; Glia (Matsui, F. (790) 45)

Choroid plexus
Histidine; Rat; Transport (Xiang, J. (783) 37)

K-NPPase cytochemistry; Catecholamine; Inovan; Dopamine; Na–K ATPase (Kanoh, N. (787) 154)

Leptin; Leptin receptor; OB protein; OB-R; Obesity; Thalamus; Hypothalamus; Piriform cortex; Concentration of hydrogen ions (Corp, E.S. (789) 40)

Blood–brain barrier; Cerebrospinal fluid; Developing brain; Homeostasis; Iron; Transferrin receptor (Moos, T. (790) 115)

ICAM-1; Arachnoid membrane; Dural sinus; Immuno-SEM (Endo, H. (793) 297)

Alcoholism; Brain; Ion transport (Javaheri, S. (812) 91)

Choroid plexus epithelial cell
Cerebrospinal fluid; Ependymal cell; Thyroxine; Transthyretin; Triiodothyronine (Kuchler-Bopp, S. (793) 219)

Choroid plexus epithelial cell culture
Blood–CSF-barrier; Cell polarity; Active transport; Organic anion exchanger; Fluid secretion (Hakvoort, A. (795) 247)

Chromaffin cell
Ibogaine mechanism; Nicotinic acetylcholine receptor; Anti-addictive agent; Catecholamine release (Mah, S.J. (797) 173)

Central pain; Allodynia; Allograft; Quisqualic acid (Brewer, K.L. (798) 83)

Intracellular Ca^{2+}; Exocytosis; $I_{K(Ca)}$; Bradykinin; Caffeine (Kim, S.J. (799) 197)

Chronic
Aluminum; Fluoride; Neurotoxicity; Cerebrovasculature; Neocortex; Hippocampus; Rat; Amyloid (Varner, J.A. (784) 284)

Chronic brain hypoperfusion
Ischemia; Dimethyl sulfoxide; Fructose 1,6-diphosphate; Memory (De la Torre, J.C. (779) 285)

Chronic cerebral ischemia
FK506; Rat; White matter change; Microglia (Wakita, H. (792) 105)

Chronic constriction injury
Allodynia; Hyperalgesia; Tumor-necrosis-factor; Interleukin-1; Wallerian degeneration (Sommer, C. (784) 154)

Neuropathic pain; N-type voltage-sensitive calcium channel; P-type voltage-sensitive calcium channel; Partial sciatic nerve injury; Thermal hyperalgesia (Yamamoto, T. (794) 329)

NFκB; Immunocytochemistry; Electron microscopy; Axotomy; Sciatic nerve; Dorsal root ganglion (Ma, W. (797) 243)

Chronic epilepsy
Self-sustaining status epilepticus; Electrical stimulation; Hippocampus (Mazarati, A.M. (801) 251)

Chronic ethanol
Clusterin; Glycosylation; Rat brain (Hale, E.A. (785) 158)

Cessation; VTA neuron (Bailey, C.P. (803) 144)

5α-Pregnan-3α-ol-20-one; Neurosteroid binding site; $GABA_A$ receptor (Mehta, A.K. (805) 88)

Chronic EtOH
Brain; Anandamide; Cannabinoid receptor; Down-regulation (Basavarajappa, B.S. (793) 212)

Chronic haloperidol
Dopamine neuron; Depolarization block; D-tubocurarine; Succinylcholine; Gallamine; Chloral hydrate (Melis, M. (783) 127)

Chronic hypoxia
Carotid body; Regulatory neuropeptide; Immunohistochemistry; Rat (Kusakabe, T. (806) 165)

Hypoxia; Carotid body; K^+ current; Ca^{2+} current (Carpenter, E. (811) 79)

Chronic microdialysis
Spinal cord; Ventral horn; Motor function; Histology (Gerin, C. (794) 169)

Chronic morphine
Hippocampal CA1; Long-term potentiation; NMDA receptor; Voltage-dependent calcium channel (Pourmotabbed, A. (804) 125)

Chronic neuropathy
Carrageenan-induced inflammation; Hyperalgesia; Allodynia; Spinalization; Nocifensive reflex (Kauppila, T. (797) 234)

Chronic nicotine
Brain capillary; Local cerebral glucose utilization; Immunostaining; Autoradiography (Duelli, R. (782) 36)

Chronic stress
Blood pressure; Heart rate; Formalin; Pain; ACTH; Parabrachial (Bhatnagar, S. (797) 313)

Chronic treatment
Fos; Immunohistochemistry; Haloperidol decanoate; Antipsychotic action; Limbic (Sun, Y.-J. (791) 125)

Chronic variable stress
Jaw-opening reflex; Central α_2-adrenoceptor sensitivity; Rat (García-Vallejo, P. (801) 72)

Chronoamperometry
Caudate nucleus; Rat; Reaction-time task; Auditory stimulation; Monoamine; Dopamine; Phasic response (Shinba, T. (781) 284)

Chung model
Nicotinic acetylcholine receptor; Morphine; Diabetic neuropathy; Allodynia; Hyperalgesia (Bannon, A.W. (801) 158)

CI988
Cholecystokinin; Microdialysis; Spinal cord; Axotomy; Rat (Gustafsson, H. (790) 141)

Cigarette smoke
1,2,3,4-Tetrahydro-β-carboline; Dopaminergic neuroprotection; MAO inhibition; Parkinson's disease (Soto-Otero, R. (802) 155)

Ciliary ganglion neuron
Fibroblast; Adenosine; Nucleoside (Wakade, A.R. (788) 69)

Ciliary neurotrophic factor
Interleukin-6; Leukemia inhibitory factor; Receptor; Nerve injury; mRNA expression (Ito, Y. (793) 321)

Cingulate cortex
Schizophrenia; Ketamine; NMDA; Limbic system; Hippocampus; Prefrontal cortex (Duncan, G.E. (787) 181)

Behavior; Caudate nucleus; Cocaine; Genotype; Nucleus accumbens (Baumann, M.H. (804) 316)

192-IgG-saporin; Immunotoxin; Hippocampus; Radial-arm maze; Working memory; Spatial memory (Dougherty, K.D. (810) 59)

Circadian
Cyclic adenosine monophosphate; 8-bromocyclic adenosine monophosphate; Serotonin; Brain slice; Aging (Ruby, N.F. (779) 338)

Suprachiasmatic nucleus; Histamine; Entrainment; Phase-shift; Dimaprit; Light; Syrian hamster (Scott, G. (783) 1)

Entrainment; Muscarinic; Suprachiasmatic; Rhythm; Hypothalamus; Cerebral cortex; Receptor (Bina, K.G. (797) 143)

Circadian clock
Arylalkylamine *N*-acetyltransferase; Egg; Cricket; *Gryllus bimaculatus*; Insect (Itoh, M.T. (799) 172)

Locomotor activity rhythm; Phase shifts; Fos protein; Circadian times; Subjective night (Chambille, I. (808) 250)

Circadian oscillator
Teleost; Pineal; Melatonin; Arylalkylamine *N*-acetyltransferase; Protein synthesis (Falcón, J. (797) 109)

Circadian phase shift
High performance liquid chromatography; Melatonin; Methylcobalamin; Monoamine assay; Pineal gland; Rat; Vitamin B_{12} (Ikeda, M. (795) 98)

Circadian rhythm
Phase shift; Rod; Cone; *rd* mouse (Yoshimura, T. (779) 188)

Melatonin; Serotonin *N*-acetyltransferase; Development; Egg; Cricket; *Gryllus bimaculatus*; Insect (Itoh, M.T. (781) 91)

Nonphotic zeitgeber; Wheel running; Metergoline; Syrian hamster (Mistlberger, R.E. (786) 31)

Dorsomedial hypothalamus; Microdialysis (Engelmann, M. (792) 343)

Melatonin; Dopamine; Retina; Microdialysis; Pigeon (Adachi, A. (792) 361)

Suprachiasmatic nucleus; Nitric oxide synthase; Glutamate; Biological clock (Ferreyra, G.A. (797) 190)

Kallikrein; Rat pineal gland; Immunohistochemistry; Immunoelectron microscopy; Vasoactive intestinal polypeptide; Perivascular space; ELISA (Kudo, M. (797) 287)

Suprachiasmatic nucleus; Intergeniculate leaflet; Phase resetting; Tachykinin; NK_1 receptor (Challet, E. (800) 32)

Arg–vasopressin; Corticosterone; Suprachiasmatic nucleus; Locomotor activity (Isobe, Y. (800) 78)

Suprachiasmatic nucleus; Melatonin; Arginine–vasopressin (Watanabe, K. (801) 216)

Suprachiasmatic nucleus; Ventromedial hypothalamus; Gold thioglucose; Food restriction (Challet, E. (801) 244)

Suprachiasmatic nucleus; Dorsomedial part; Immediate-early gene; c-Fos; Spontaneous expression (Sumová, A. (801) 254)

Impoverished environment; Hippocampus; Microdialysis; Stress; Behavior (Mitsushima, D. (805) 207)

SCN (Suprachiasmatic Nucleus); IGL (Intergeniculate Leaflet); Comparative anatomy; vLGN (Ventral Lateral Geniculate Nucleus); Neuropeptide Y (Chevassus-au-Louis, N. (805) 213)

Suprachiasmatic nucleus; Serotonin; Neuropeptide Y; Cyclic AMP; Brain slice (Prosser, R.A. (808) 31)

Suprachiasmatic nucleus; Immediate early gene; Geniculohypothalamic tract; *N*-methyl-D-aspartate receptor (Edelstein, K. (810) 264)

Suprachiasmatic nuclei; Adenylyl cyclase; Cyclic AMP; In situ hybridization histochemistry (Cagampang, F.R.A. (810) 279)

Serotonin; Non-photic entrainment (Antle, M.C. (813) 139)

Pituitary adenylate cyclase-activating polypeptide receptor; PACAP; PAC_1; Suprachiasmatic nuclei; Supraoptic nuclei; In situ hybridization histochemistry (Cagampang, F.R.A. (813) 218)

Feeding-entrained anticipatory activity; c-Fos; Neonatal rabbits; Supraoptic nucleus; Paraventricular hypothalamic nucleus (Allingham, K. (783) 210)

Retina; Melatonin; Retinal degeneration; Mouse (Tosini, G. (789) 221)

Freund's adjuvant arthritis; Lymph nodes; Spleen; Ornithine decarboxylase; Tyrosine hydroxylase; Acetylcholine synthesis (Cardinali, D.P. (789) 283)

Suprachiasmatic nucleus; γ-aminobutyric acid; GABA; Baclofen; Rat; Brain-slice (Biggs, K.R. (807) 250)

Circadian times
Circadian clock; Locomotor activity rhythm; Phase shifts; Fos protein; Subjective night (Chambille, I. (808) 250)

Circling
Globus pallidus; Subthalamic nucleus; Haloperidol; MK-801 (Miwa, H. (781) 268)

Anandamide; Basal ganglia; CP 55,940; Cannabinoid; Marijuana; Movement; THC (Miller, A.S. (793) 7)

Cisplatin
Nerve growth factor; Vincristine; Taxol; Superior cervical ganglia; Rat (Hayakawa, K. (794) 313)

Citalopram
Synapse; Cocaine; MDMA; Methamphetamine; Depression; High-affinity uptake; Voltammetry; Electron microscopy; Immunocytochemistry; Autoradiography; Paroxetine (Zhou, F.C. (805) 241)

c-*jun*
Thyrotropin releasing hormone; c-*fos*; Hypothalamic neuron; Glucocorticoid (Luo, L.-G. (791) 56)

Immediate early gene; c-*fos*; Traumatic brain injury; Messenger RNA; In situ hybridization (Katano, H. (800) 69)

3-Nitropropionic acid; Apoptosis; Mitochondria; Huntington's disease; *bcl-2*; *bcl-x* (Sato, S. (808) 56)

Classical
Cocaine; Endocrine; Corticosterone; CRF; Tolerance; Conditioning (DeVries, A.C. (786) 39)

Classical conditioning
Eyeblink; Protein synthesis; Interposed nucleus; Intermediate cerebellum; Rabbit (Bracha, V. (788) 169)

Associative learning; Adenylyl cyclase; Calcium; Calmodulin; Coincidence detector (Lin, A.H. (800) 300)

Nictitating membrane; α-Amino-3-hydroxy-5-methylisoxazole-4-propionic acid; 6-Cyano-7-nitroquinoxaline-2,3-dion; Quisqualate receptor; Cerebellum; Autoradiography (Hauge, S.A. (803) 9)

Spaced training; Massed training; Associative learning; Appetitive stimulus; Aversive stimulus; Gastropod (Kojima, S. (808) 113)

Claustrum
Sensory zone; Cerebral cortex; Connection; Retrograde transport (Kowiański, P. (784) 199)

Cl^-/HCO_3^- exchanger
Ammonia; Protein kinase C; Intracellular Cl^- concentration (Irie, T. (806) 246)

Climbing fiber
Ang II receptor subtype; AT_{1A}; AT_{1B}; 3-Acetylpyridine; Purkinje cell (Jöhren, O. (793) 176)

Clinicopathological correlations
Alzheimer disease; Hippocampus; Atrophy; Neuronal loss; Stereology (Bobinski, M. (805) 267)

Clonal cell line
Stem cell; Neoplasm (Minakawa, M. (813) 172)

Clonic
Rat brain; Cholecystokinin (CCK); mRNA; Pentylenetetrazol (PTZ); Frontal cortex; Hippocampus; Epilepsy (Takeda, K. (779) 320)

Clonidine
Neuropathic pain; MK-801; Neurotoxicity; Activity; Rat (Jevtovic-Todorovic, V. (781) 202)

Central alpha$_2$-adrenoceptor; Pressor response; Ageing; Conscious rat (Kawasaki, H. (782) 333)

Aromatic L-amino acid decarboxylase; NMDA antagonists; Atropine (Fisher, A. (792) 126)

α_{2A}-Adrenergic receptor; Locus coeruleus (Lee, A. (795) 157)

Clonidine displacing substance
Agmatine; Imidazoline receptor; Rat; Immunohistochemistry (Otake, K. (787) 1)

Closed-head injury
Brain edema; Blood-brain barrier; Neurological deficit; Acetylcholinesterase inhibitor; Rat (Chen, Y. (784) 18)

Clozapine
Schizophrenia; Ketamine; NMDA; Animal model; Haloperidol; Limbic system; Hippocampus (Duncan, G.E. (812) 65)

Cl^- pharmacology
Voltage-clamp; Patch-clamp (Müller, M. (781) 307)

CLSM
Cerebral ischemia; Rat; Hippocampus; Calcium; Fluo 3; Fura Red (Grøndahl, T.Ø. (785) 58)

Cerebral ischemia-anoxia; Thapsigargin; Hippocampus; Calcium; Fluo-3–Fura Red (Grøndahl, T.Ø. (796) 125)

Clusterin
Chronic ethanol; Glycosylation; Rat brain (Hale, E.A. (785) 158)

cMet
Hepatocyte growth factor; Scatter factor; Alzheimer's disease (AD); Growth factor (Fenton, H. (779) 262)

C57 mice
Glutamate; Kainate; AMPA; Receptor; DBA mice; Seizure; Epilepsy (Kürschner, V.C. (780) 1)

^{13}C NMR spectroscopy
Acetyl-L-carnitine; Brain; Glucose; Glycogen; Stable isotope (Aureli, T. (796) 75)

CNP
MBP; GFAP; Spinal cord injury (Morin-Richaud, C. (783) 85)

CNQX
Spontaneous augmented breath; Inspiratory neuron; Excitatory amino acid; NMDA; AP-5; Non-NMDA; Iontophoresis (Takeda, M. (781) 194)

Lectin; Concanavalin A; Glutamate receptor; Long-term potentiation; AMPA; Binding (Hoffman, K.B. (795) 105)

CNS
IGF-II; *H19*; Imprinting; Methylation (Zhan, S. (792) 283)

Morphine; Diazepam; Opioid; Benzodiazepine; μ-Opioid receptor; Constitutive receptor; Tolerance; Brain region; Spinal cord; Peripheral tissue (Tejwani, G.A. (797) 305)

CNS neuron
Ethanol; Development; Glutamate receptor; Intracellular calcium (Gruol, D.L. (793) 12)

CNTF
Astrocyte; Gliosis; Cell culture; Neuroglia; Cytokine (Levison, S.W. (803) 189)

Co^{2+}
Cell culture; Zinc; Calcium; Glutamate; Neurotoxicity; Timm's staining; Cobalt (Yin, H.Z. (781) 45)

Adrenal chromaffin cell; Cytosolic Ca^{2+} concentration; Fura-2; Cd^{2+}; 1,4,5-IP_3 (Yamagami, K. (798) 316)

Coagonist hypothesis
Glutamate; Competitive antagonism; Excitatory amino acid; Vasopressin; Neurosecretion (Currás, M.C. (789) 181)

Coated vesicle
[^{3}H]5-hydroxytryptamine binding; [^{3}H]spiperone binding; Serotonin receptor, 5-HT_1 and 5-HT_2 receptor; Bovine brain (Moroi, K. (794) 291)

Cobalt
Cell culture; Zinc; Calcium; Glutamate; Neurotoxicity; Timm's staining; Co^{2+} (Yin, H.Z. (781) 45)

Carotid body; Glomus cell; Intracellular sodium; Voltage clamp; Hypoxia; Barium; TTX (Jiang, R.-G. (797) 197)

Cobalt loading
Glutamate receptor; Calcium permeable AMPA receptor; Excitatory amino acids; Membrane distribution; Developing cranial motoneurone (Launey, T. (781) 148)

Cocaine
Serotonin; Dopamine; Morphine; Microdialysis; Nucleus accumbens (Willins, D.L. (781) 291)

Bed nucleus of the stria terminalis; D-1 receptor; Dopamine; Extended amygdala; Rat; SCH 23390; Self-administration (Epping-Jordan, M.P. (784) 105)

Endocrine; Corticosterone; CRF; Tolerance; Classical; Conditioning (DeVries, A.C. (786) 39)

Medial prefrontal cortex; Adrenalectomy; Self-stimulation (Carr, K.D. (787) 321)

Amphetamine; c-*fos*; Striatum; Development; Sensitization (Snyder-Keller, A. (794) 88)

Prelimbic medial prefrontal cortex; Open field; Behavioral sensitization; Locomotion; Sniffing (Tzschentke, T.M. (795) 71)

Seizures; Dopamine D1 and D2 receptors; β-carboline system; NMDA–Ca ionophore complex (Ushijima, I. (797) 347)

Somatosensory thalamus; Microdialysis; Sensory system; Norepinephrine; Serotonin (Rutter, J.J. (798) 7)

Dopamine release; Kappa-opioid; NMDA; Ibogaine; Gender (Sershen, H. (801) 67)

Behavior; Caudate nucleus; Cingulate cortex; Genotype; Nucleus accumbens (Baumann, M.H. (804) 316)

Synapse; MDMA; Methamphetamine; Depression; High-affinity uptake; Voltammetry; Electron microscopy; Immunocytochemistry; Autoradiography; Citalopram; Paroxetine (Zhou, F.C. (805) 241)

Nicotine; Sex differences; Analgesia; Gender (Craft, R.M. (809) 137)

Amphetamine; Dopamine; Haloperidol; Striatum (White, I.M. (810) 146)

Sensitization; Social stress; Fos immunohistochemistry; Ventral tegmental area; Dorsal raphe nucleus; Periaqueductal grey area; Locus coeruleus; Locomotion (Nikulina, E.M. (810) 200)

Cocaine
Corticosterone; Mesocorticolimbic dopamine system; Medial prefrontal cortex; Nucleus accumbens; Caudate-putamen; Shell (Ikemoto, S. (814) 171)

Cochlea
Superior cervical ganglion; Norepinephrine; Dopamine; HPLC; Rat (Gil-Loyzaga, P. (779) 53)

Reactive oxygen species; Glutathione; Cysteine; Buthionine; Oxothiazolidine carboxylate; Noise-induced hearing loss; Guinea pig (Yamasoba, T. (784) 82)

Acoustic trauma; Noise-induced hearing loss; Reactive oxygen species; High-performance liquid chromatography; Guinea pig (Yamasoba, T. (804) 72)

Peripherin; Intermediate filaments; Type II neurons; Outer hair cells (Hafidi, A. (805) 181)

Nitric oxide; NO synthases; Soluble guanylylcyclase; Vestibular system; Neurotransmission (Hess, A. (813) 97)

Cochlear hair cells
Actin; Cytokeratin; Parvalbumin; Mammalian; Neodifferentiation; Electron microscopy; Confocal microscopy (Parietti, C. (813) 57)

Cochlear nucleus
Ca^{2+}/calmodulin-dependent protein kinase II; Substantia nigra; Red nucleus; Pontine nucleus; Inferior olivary nucleus (Ochiishi, T. (790) 129)

Auditory brainstem response; Calcium-binding protein; Quantification; Noise; Immunocytochemistry (Idrizbegovic, E. (800) 86)

Deafferentation; Nucleus magnocellularis; Cell death; Auditory system; Ribosome (Hyson, R.L. (809) 214)

Cochlear outer hair cell
Chloride channel; Potassium channel; Calcium calmodulin-dependent protein kinase II; Protein phosphatase; *N*-acetylsphingosine; Calyculin A (Minamino, M. (781) 275)

Coefficient of variation
Hippocampus; Brain slice; AMPA receptor; NMDA receptor; Synapses (Niu, Y.-P. (800) 253)

Aortic depressor nerve; Barosensitive neuron; Barosensitivity; Firing rate; Skewness; Neurogenic hypertension; Rostral ventrolateral medulla (Han, Y.M.Y. (813) 262)

Coenzyme Q_{10}
Parkinson's disease; Dopamine; Mitochondria (Beal, M.F. (783) 109)

Coexistence
μ-Opioid receptor; Substance P; Calcitonin gene-related peptide; Nitric oxide synthase; Nodose ganglion; Petrosal ganglion; Jugular ganglion; Rat (Ding, Y.-Q. (792) 149)

Cognition
Memory; Menopause; Hippocampus; Neuroanatomy; Dementia; Estrogen receptor (Register, T.C. (788) 320)

Rearing environment; Corpus callosum; Cerebral cortex; MRI; Rhesus monkey (Sánchez, M.M. (812) 38)

Cognitive disorder
Epilepsy; Microcephaly; Hippocampus; Neocortex (Rafiki, A. (782) 142)

Cognitive enhancer
Hippocampus; Long-term potentiation; Somatostatin; Acetylcholine; Mossy fiber-CA3 pathway; FK960 (Matsuoka, N. (794) 248)

Cognitive neuroscience
Auditory; Speech; Language; Magnetoencephalography; Lateralization; Temporal processing (Gage, N. (814) 236)

Coincidence detector
Associative learning; Classical conditioning; Adenylyl cyclase; Calcium; Calmodulin (Lin, A.H. (800) 300)

Colchicine
Nucleus basalis; Cholinergic hypofunction; *trk*; AChE; NGF; BDNF (Shaughnessy, L.W. (781) 62)

Blood–brain barrier; Microdialysis; Mouse; P-glycoprotein; Pharmacokinetics (Evrard, P.A. (786) 122)

Cold water restraint
Brain–gut axis; Neurotensin receptor; Neurotensin receptor antagonist (Karinch, A.M. (810) 123)

Collateral
Paraventricular nucleus; Rostral ventrolateral medulla; Spinal cord (Shafton, A.D. (801) 239)

Co-localization
Immunohistochemistry; Anti-peptide antibody; Central nervous system; Retrograde tracer; Analgesia (Schindler, M. (798) 25)

Neuromedin K receptor; Dopaminergic neuron; Immunocytochemistry; Midbrain; Rat (Chen, L.-W. (780) 150)

Island of Calleja; NOS; cGMP; Nitric oxide; Diffusion (De Vente, J. (789) 175)

NADPH diaphorase; Nitric oxide synthase; Choline acetyltransferase; Vasoactive intestinal polypeptide; Middle cerebral artery; Sphenopalatine ganglia; Pig (Yu, J.-G. (801) 78)

Trigeminal nerve; Nociception; Lamina II; GABA; Glycine; Inhibitory neurotransmitter (Dumba, J.S. (806) 16)

Colocalization with GABA
Amacrine cell; Ganglion cell; Cone photoreceptor; Outer segment; Horizontal cell; NMDA-R2A; NMDA-R2B; Calbindin; Parvalbumin; Immunocytochemistry (Goebel, D.J. (808) 141)

Colorectal
Lateral reticular nucleus; Visceral pain (Ness, T.J. (802) 163)

Color opponency
Bipolar cell; GABA; GABA receptor; Retina; Carp (Zhang, D.-Q. (792) 319)

Command system
Reticulospinal neuron; Locomotion; Spike frequency adaptation; Delayed excitation; Bursting (Rouse, D.T. (779) 301)

Common chemical sense
Trigeminal; Electrophysiology; Taste (Pittman, D.W. (790) 224)

Common mole-rat (*Cryptomys* sp.)
Terminal nerve; GnRHir cell; Reconstruction; Quantification (Jastrow, H. (813) 229)

Comparative anatomy
Development; Dove; Feeding; Quinto-frontal; Trigeminal (Ye, S. (788) 349)

SCN (Suprachiasmatic Nucleus); IGL (Intergeniculate Leaflet); Circadian rhythm; vLGN (Ventral Lateral Geniculate Nucleus); Neuropeptide Y (Chevassus-au-Louis, N. (805) 213)

Compensatory eye movement
Area prerubralis parafascicularis; Ventrolateral outgrowth; GABA (Toonen, M. (802) 267)

Competitive antagonism
Glutamate; Excitatory amino acid; Vasopressin; Neurosecretion; Coagonist hypothesis (Currás, M.C. (789) 181)

Competitive RT–PCR
Interleukin; Tumor necrosis factor; Leptin; Neuropeptide Y; Opioid; Glucocorticoid; Corticotropin; Endotoxin; Nervous system; Cerebellum; Hippocampus; Hypothalamus; Feeding; Food intake; RNase protection (Gayle, D. (795) 77)

Complement activation
Alzheimer's disease; β-Amyloid peptide; C5b-9; MAC; Complement inhibitor; CD59; Neurodegeneration; Cytotoxicity (Shen, Y. (796) 187)

Complement inhibitor
Alzheimer's disease; β-Amyloid peptide; Complement activation; C5b-9; MAC; CD59; Neurodegeneration; Cytotoxicity (Shen, Y. (796) 187)

Complete brain ischemia
Guinea pig; Rat; Microwave fixation; Adenosine; Inosine; Hypoxanthine; Adenosine deaminase (Kobayashi, T. (787) 211)

Compression
Rat astrocyte RCR-1 cell; Proliferation; Signaling pathway; Injury of central nervous system; Tyrosine kinase (Oishi, Y. (781) 159)

Concanavalin A
Lectin; Glutamate receptor; Long-term potentiation; AMPA; CNQX; Binding (Hoffman, K.B. (795) 105)

Glutamate; Cyclothiazide; GYKI 52466; Receptor desensitization; Light response (Yang, J.-H. (797) 125)

Concentration of hydrogen ions
Leptin; Leptin receptor; OB protein; OB-R; Obesity; Thalamus; Hypothalamus; Piriform cortex; Choroid plexus (Corp, E.S. (789) 40)

Concussion
Long-term potentiation; Synaptic plasticity; Hippocampus (Sick, T.J. (785) 287)

Conditioned fear
Vasopressin; Oxytocin; Norepinephrine; Bed nucleus of the stria terminalis; Footshock (Onaka, T. (788) 287)

Conditioned inhibition
Fear; Anxiety; Startle; Medial geniculate (Heldt, S.A. (813) 274)

Conditioned place preference paradigm
Ethanol; Foot shock stress; Rewarding effect; μ-Opioid receptor; δ-Opioid receptor (Matsuzawa, S. (803) 169)

Conditioned reward
Dopamine; GABA; Locomotor activity; Ventral pallidum; Nucleus accumbens (Fletcher, P.J. (805) 29)

Conditioned taste aversion
Protein-kinase C; Chelerythrine; Learning; Memory; Rat (Sacchetti, B. (799) 84)

NMDA receptor; Long-term potentiation; Insular cortex; CPP; Basolateral amygdaloid nucleus (Escobar, M.L. (812) 246)

Glutamate; Amygdala; Lateral hypothalamus; Microdialysis; CZE-LIFD (Tucci, S. (813) 44)

Conditioning
Fastigial nucleus; Neuroprotection; Electrical stimulation; Focal infarction; Middle cerebral artery occlusion (Reis, D.J. (780) 161)

Cocaine; Endocrine; Corticosterone; CRF; Tolerance; Classical (DeVries, A.C. (786) 39)

c-*fos*; NGFI-A; zif268; Amygdala; Fear (Rosen, J.B. (796) 132)

Conduction velocity
Adenosine; Peripheral nerves; Rheobase and chronaxie; Young and old (Tekkök, S. (813) 268)

Cone
Circadian rhythm; Phase shift; Rod; *rd* mouse (Yoshimura, T. (779) 188)

Cone pedicles
Horizontal cells; Synaptic plasticity; Cytochalasin D; Nucleolus-like body; Teleosts retina; Light- and dark-adaptation; Cytoskeleton (De Juan, J. (792) 173)

Cone photoreceptor
Amacrine cell; Ganglion cell; Outer segment; Horizontal cell; NMDA-R2A; NMDA-R2B; Calbindin; Parvalbumin; Immunocytochemistry; Colocalization with GABA (Goebel, D.J. (808) 141)

Confocal laser scanning microscopy
GAP-43; Human neocortex; Ischemia; Immunofluorescence (Akulinin, V.A. (784) 341)

Confocal microscopy
Aging; Preganglionic neuron; Cholera toxin; Pregnancy; Pelvic innervation (Dering, M.A. (780) 245)

Phosducin; Green fluorescence protein; Fusion protein; G proteins; Prostaglandin e1; Protein trafficking (Schulz, R. (790) 347)

Calcitonin gene-related peptide; Substance P; NK 1 receptor; Three dimensional reconstruction (Ladic, L.A. (795) 312)

Astrocyte; Intracellular pH; SNAFL-1; Acidosis; Nigericin (Masuda, A. (807) 70)

Actin; Cytokeratin; Parvalbumin; Cochlear hair cells; Mammalian; Neodifferentiation; Electron microscopy (Parietti, C. (813) 57)

Congestive heart failure
Cardioinhibitory neuron; Bradycardia; Cardiac ganglion; Heart; Myocardial contractility; Parasympathetic nervous system; Vagus nerve (Blinder, K.J. (804) 325)

Conjunctival epithelium
Corneal epithelium; Limbal epithelium; Opioid; [Met^5]-enkephalin; Preproenkephalin; Eye; Cell renewal mRNA; In situ hybridization (Zagon, I.S. (792) 72)

Connection
Claustrum; Sensory zone; Cerebral cortex; Retrograde transport (Kowiański, P. (784) 199)

Connexin
Toxoplasma gondii; *Trypomosama cruzi*; Toxoplasmosis; Glia; Cx43; Cx26; Dye coupling (Campos de Carvalho, A.C. (790) 304)

ω-Conotoxin GVIA
Calcium channel; Desipramine; Exocytosis; Neurotransporter; Noradrenaline (Yamazaki, T. (794) 146)

Conscious rat
Clonidine; Central alpha$_2$-adrenoceptor; Pressor response; Ageing (Kawasaki, H. (782) 333)

Constitutive receptor
Morphine; Diazepam; Opioid; Benzodiazepine; μ-Opioid receptor; Tolerance; Brain region; Spinal cord; Peripheral tissue; CNS (Tejwani, G.A. (797) 305)

Continuous injection
Gene transfer; Plasmid DNA–cationic liposome complex; Adult mammalian CNS (Imaoka, T. (780) 119)

Continuous monitoring
Perilymph; Glutamate; Ca^{2+}-dependency; Microdialysis (Matsuda, K. (794) 343)

Contralateral
Semitendinosus; Rectus femoris; Human; Ipsilateral (Misiaszek, J.E. (795) 25)

Control of breathing
Calcium; Magnesium; Central chemosensitivity; Neonatal rat; Isolated brainstem–spinal cord preparation (Kuwana, S.-i. (786) 194)

Contusion
Head trauma; Catecholamine; Cerebral edema; Somatosensory cortex (Dunn-Meynell, A.A. (800) 245)

Contusion injury
Heat shock protein; Heme oxygenase; Microglia; Macrophage (Mautes, A.E.M. (795) 17)

Convergence
Blink reflex; DNIC; Interneuron; Trigeminus; Brainstem (Ellrich, J. (803) 161)

Convergent neuron
Strychnine; Ketamine; Bicuculline; Dorsal horn; Noxious immersion; Paw; Rat (McGaraughty, S. (784) 63)

Convulsion
Audiogenic seizures; Inferior colliculus; Neuron; Ethanol withdrawal (Chakravarty, D.N. (783) 102)

Benzodiazepine receptor; Methyl β-carboline-3-carboxylate; Genetic selection; Mouse; Behavioral neurogenetics (Chapouthier, G. (787) 85)

Zinc; EL mouse; Zonisamide; Nitric oxide; NADPH diaphorase; Hippocampal formation (Nagatomo, I. (789) 213)

Estrogen; Progesterone; Flurothyl; Low magnesium; Forebrain; Brainstem; Entorhinal cortex (Velíšek, L. (796) 247)

Copulation
Reflex ovulation; Olfaction; Pheromones; Sex differences; Hypothalamus; GnRH (Gill, C.J. (811) 21)

Core temperature
MPTP; Methamphetamine; Neurotoxicity; Striatum; Dopamine; Mice (Moy, L.Y. (790) 264)

Cornea
Epithelium; Wound healing; Opioid; [Met^5]-enkephalin; Rat; Eye (Zagon, I.S. (798) 254)

Enkephalin; Epithelium; Opioid receptor; Eye; Wound healing; Growth factor (Zagon, I.S. (803) 61)

Corneal epithelium
Limbal epithelium; Conjunctival epithelium; Opioid; [Met^5]-enkephalin; Preproenkephalin; Eye; Cell renewal mRNA; In situ hybridization (Zagon, I.S. (792) 72)

Corpus callosum
Mouse; Gene mapping; *CCrSQTL*$_1$; *CCrSQTL*$_2$ (Le Roy, I. (811) 173)

Rearing environment; Cerebral cortex; MRI; Cognition; Rhesus monkey (Sánchez, M.M. (812) 38)

Cortex
8-OH-DPAT; 5-Hydroxytryptamine$_{1A}$; Serotonin receptor; Hypothermia; Selective breeding; Autoradiography (Knapp, D.J. (782) 1)

CX614; Ampakine; Cyclothiazide; Fluorowillardiine; Hippocampus (Kessler, M. (783) 121)

5-Hydroxytryptamine; Paraventricular nucleus; Bed nucleus; Caudate–putamen; Amygdala; Brainstem (Javed, A. (791) 67)

Glucocorticoid; Superoxide dismutase; Catalase; Glutathione peroxidase; Kainic acid; Hippocampus; Liver (McIntosh, L.J. (791) 209)

Nicotine; $\alpha 4\beta 2$; β-amyloid; Alzheimer's disease (Kihara, T. (792) 331)

Traumatic brain injury (TBI); Cerebral ischemia; Nitric oxide synthase (NOS); NO end product; Nitrite/nitrate (NO_x); 2,3-diaminonaphthalene (DAN); Hippocampus (Rao, A.M. (793) 265)

Plasticity; NPY; 5-HT receptor; 5-7-DHT; *p*-Chlorophenylalanine; Rat (Compan, V. (795) 264)

Immunotoxin lesion; Neuropeptide Y; Somatostatin; Cholinergic basal forebrain; Rat; Alzheimer's disease (Zhang, Z.-J. (800) 198)

Rat; Carbachol; Acetylcholine; Pedunculopontine tegmental nucleus; Nucleus pontis oralis; REM sleep; Electroencephalogram; Hippocampus (Kinney, G.G. (809) 307)

Event-related potential; Mismatch negativity; Auditory; Perception; Frequency; Lesion; Sensory memory; Hemispace (Alain, C. (812) 23)

Cortical column
Neuropathology; Hippocampus; Limbic; Dementia (Joyce, J.N. (784) 7)

Anterograde tracing; Barrels; Biotinylated dextran amine; Corticostriatal; Neostriatum; Rat; Varicosities (Alloway, K.D. (785) 341)

Cortical culture
Metabotropic; Release; [^{3}H]-GABA; Calcium; Electrophysiology (Schaffhauser, H. (782) 91)

Cortical dysplasia
Epilepsy; Microcephaly; Neuronal migration disorder; Heterotopia (Chevassus-au-Louis, N. (812) 252)

Cortical EEG
Brain injury; Neonatal cerebral hypoxia–ischemia; Rat; Locomotor activity; Telemetry (Antier, D. (807) 29)

Cortical facilitation
Human gait; Cutaneous reflexes; Sural nerve; Magnetic stimulation; Tibialis anterior; Biceps femoris (Pijnappels, M. (787) 149)

Cortical feedback
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Cortical lesion
Chemokine; Cytokine; mRNA; Brain injury (Hausmann, E.H.S. (788) 49)

Cortical motor area
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Cortical neuron
Neural cell adhesion molecule; Programmed cell death; Apoptosis (Azizeh, B.Y. (796) 20)

Angiotensin type-2 receptor; Glutamate; Nitric oxide; Central nervous system (Makino, I. (804) 296)

Mitochondrium; Superoxide dismutase; Glutamate; Glutamate receptor activation; Neurotoxicity (Li, Y. (814) 164)

Cortical primary culture
Trisomy 16 mouse; Oxidative stress; Western blot analysis; Metallothionein I/II; Hydrogen peroxide; Glutamate receptor stimulation (Scortegagna, M. (787) 292)

Cortical slice
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Cortical spreading depression
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Long-term potentiation; NMDA; AMPA (Footitt, D.R. (781) 339)

Cortical stimulation
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Corticocortical neuron
Cortical motor area; Thalamocortical neuron; Diamidino yellow; Fast blue; Statistical comparison (Wang, Y. (781) 137)

Corticoid
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Corticosteroid
RU28318; RU 38486; Corticosterone; Learning; Memory; Fear-conditioning; Rat (Cordero, M.I. (786) 11)

Glucocorticosteroid receptor; Hippocampus; Facilitation; Learning and memory; Rat (Oitzl, M.S. (797) 159)

Neurodegeneration; Apoptosis; Growth factor (Islam, A. (797) 342)

Neurotrophin; Glucocorticoid; Stress (Schaaf, M.J.M. (813) 112)

Corticosteroid receptor mRNA
Adrenal gland; In situ hybridization; Cortisol; HPA axis; Corticosterone (Lance, S.J. (780) 342)

Corticosterone
Corticosteroid receptor mRNA; Adrenal gland; In situ hybridization; Cortisol; HPA axis (Lance, S.J. (780) 342)

Glucocorticoid receptors; Photoperiod; Stress response; Hippocampus; Cortisol; Hamster (Ronchi, E. (780) 348)

RU28318; RU 38486; Corticosteroid; Learning; Memory; Fear-conditioning; Rat (Cordero, M.I. (786) 11)

Cocaine; Endocrine; CRF; Tolerance; Classical; Conditioning (DeVries, A.C. (786) 39)

ApoE-deficient mouse; Spatial memory; mRNA expression; Restraint stress (Zhou, Y. (788) 151)

Synaptic plasticity; Stress; Memory; Glucocorticoid; Hippocampus; Long-term potentiation (Bramham, C.R. (789) 245)

Hippocampal culture; Neurotoxicity; Neuroprotection; Zinc (Sunanda, (791) 295)

Interleukin-1β; Aggressive behavior; Non-social behavior; Body temperature; Mouse (Cirulli, F. (791) 308)

Hippocampal formation; Neuronal degeneration; Neuronal reorganization; Stereology (Sousa, N. (794) 199)

Arg–vasopressin; Suprachiasmatic nucleus; Circadian rhythm; Locomotor activity (Isobe, Y. (800) 78)

Stress; Elevated plus-maze; Metyrapone; Chloride ion flux; GABA; Anxiety (Calvo, N. (800) 227)

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Individual differences; Sleep–wakefulness cycle; Stress; Locomotor reactivity to novelty (Bouyer, J.J. (804) 114)

Dendritic atrophy; Golgi impregnation; Stress (Magariños, A.M. (809) 314)

α-MSH; Stress; Fever; Food intake; Water intake (Milligan, E.D. (810) 48)

Mesocorticolimbic dopamine system; Medial prefrontal cortex; Nucleus accumbens; Caudate-putamen; Shell; cocaine (Ikemoto, S. (814) 171)

Corticostriatal
Anterograde tracing; Barrels; Biotinylated dextran amine; Cortical column; Neostriatum; Rat; Varicosities (Alloway, K.D. (785) 341)

Corticostriatal input
Primary motor cortex; Supplementary motor area; Putamen; Motor control; Monkey (Takada, M. (791) 335)

Corticotropin
Interleukin; Tumor necrosis factor; Leptin; Neuropeptide Y; Opioid; Glucocorticoid; Endotoxin; Nervous system; Cerebellum; Hippocampus; Hypothalamus; Feeding; Food intake; RNase protection; Competitive RT–PCR (Gayle, D. (795) 77)

Corticotropin-releasing factor
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Corticotropin releasing hormone
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Amygdala; Central amygdala nucleus; In situ hybridization; mRNA; Neuropeptide; Paraventricular nucleus; Stress (Hsu, D.T. (788) 305)

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Vasopressin; V1 receptor; T cell; NK cytotoxicity; Stress (Shibasaki, T. (808) 84)

Cortisol
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Glucocorticoid receptors; Photoperiod; Stress response; Hippocampus; Corticosterone; Hamster (Ronchi, E. (780) 348)

Cortistatin
Kainic acid; Somatostatin receptor; Neuroprotection; Excitotoxicity; Seizure; Epilepsy (Braun, H. (803) 54)

CP 55,940
Anandamide; Basal ganglia; Cannabinoid; Circling; Marijuana; Movement; THC (Miller, A.S. (793) 7)

cPLA2
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CPP
Long-term potentiation; Insular cortex; NMDA receptor; Basolateral amygdaloid nucleus; MK-801 (Escobar, M.L. (779) 314)

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Cerebellar granule cell; Apoptosis; ICE family protease; Caspase (Harada, J. (793) 231)

CPP
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CPP binding
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Cranial nerve motor nucleus
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Craniocentric representation
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C-reactive protein
Acute-phase protein; Amyloid P component; hNT neuron; Neuronal culture; NT2 cell (Duong, T. (813) 303)

Creatine kinase
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CRF
Cocaine; Endocrine; Corticosterone; Tolerance; Classical; Conditioning (DeVries, A.C. (786) 39)

CRH
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Nitric oxide; GnRH; Opiate receptor; Cannabinoid receptor; Opioid; Median eminence; Hypothalamus (Prevot, V. (790) 236)

Cricket
Melatonin; Serotonin *N*-acetyltransferase; Circadian rhythm; Development; Egg; *Gryllus bimaculatus*; Insect (Itoh, M.T. (781) 91)

Circadian clock; Arylalkylamine *N*-acetyltransferase; Egg; *Gryllus bimaculatus*; Insect (Itoh, M.T. (799) 172)

Crocin
Ethanol; NMDA receptor; Dentate gyrus; Hippocampus (Abe, K. (787) 132)

Cromakalim
ATP-inhibited K^+ channel; Membrane potential; Tolbutamide; HOE 234; Metabolic inhibition (Frey, G. (798) 247)

Cross-correlation function
Spontaneous epileptiform burst; Long-term potentiation; CA3 hippocampal slice; Chaotic mossy fiber stimulation; Spatial synchronization (Ishizuka, S. (790) 108)

Crosslinking
Advanced glycation endproduct; Alzheimer's disease; Oxidative stress; Hirano body (Münch, G. (796) 307)

Cross-reactivity
Neuromodulation; NMDA receptor; Glycine site; Biphasic effect; Patch clamp; Channel kinetics (Liu, G.J. (791) 290)

Cross-talk
Metabotropic glutamate receptors; Cyclic AMP; Adenosine (Cartmell, J. (791) 191)

Crustacea
NADPH-d histochemistry; Nitric oxide; Olfaction (Johansson, K.U.I. (807) 237)

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Senile plaque; Alzheimer's disease; Neurite outgrowth (Tolar, M. (787) 49)

M-CSF
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C-type natriuretic peptide
Atrial natriuretic peptide; Anxiety; Rat; Plus maze (Montkowski, A. (792) 358)

Culture
Adenosine; Astrocyte; Stellation; Adenosine receptor; Tyrosine phosphatase (Abe, K. (804) 63)

Oxidative stress; Intracerebral transplantation; PBN; Lazaroid; Parkinson's disease (Karlsson, J. (805) 155)

Motoneuron; Excitotoxicity; Kainate; Astrocyte; Differentiation; Mouse (Vandenberghe, W. (807) 1)

Nitric oxide; Human; Astrocyte; Cytokine; Adult (Zhao, M.-L. (813) 402)

Cultured neuron
Glutamate; L-Arginine; Nitric oxide; MK-801; Ketamine (Yamauchi, M. (780) 253)

Cultured spinal neuron
Neuromodulation; Neurosteroid; Progesterone; Kainate receptor; Patch-clamp (Wu, F.-S. (779) 354)

Current source density
Primary auditory cortex; Monkey; Multiunit activity; Pitch encoding; Tonotopic organization (Fishman, Y.I. (786) 18)

Feedforward excitation; Paired-pulse facilitation; Medial perforant path; Dentate gyrus; CA3 (Wu, K. (797) 35)

Cutaneous afferent
Trigemino-facial reflex; Blink reflex; Trigemino-hypoglossal reflex; Mucosal afferent; Man (Maisonobe, T. (810) 220)

Cutaneous nerve
c-*fos*; Spinal trigeminal tract nucleus; Subnucleus oralis; Intraoral nerve (Sugimoto, T. (783) 158)

Cutaneous reflexes
Human gait; Sural nerve; Cortical facilitation; Magnetic stimulation; Tibialis anterior; Biceps femoris (Pijnappels, M. (787) 149)

CX614
Ampakine; Cyclothiazide; Fluorowillardiine; Hippocampus; Cortex (Kessler, M. (783) 121)

Cx26
Toxoplasma gondii; *Trypomosama cruzi*; Toxoplasmosis; Glia; Connexin; Cx43; Dye coupling (Campos de Carvalho, A.C. (790) 304)

Cx43
Toxoplasma gondii; *Trypomosama cruzi*; Toxoplasmosis; Glia; Connexin; Cx26; Dye coupling (Campos de Carvalho, A.C. (790) 304)

CXBK mice
DPDPE; [D-Ala^2]deltorphin II; Antinociception; DOR-1; mRNA (Kest, B. (805) 131)

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Arterial chemoreceptor; Carotid body; Dopamine; Hyperoxia; Nitric oxide (Iturriaga, R. (799) 26)

Cyanide, NaCN
AMPA; Cerebellar granule cell; Rat; Metabolic inhibition; Neurotoxicity; DNA fragmentation; Glutamate; $[Ca^{2+}]_i$ (Cebers, G. (779) 194)

6-Cyano-7-nitroquinoxaline-2,3-dion
Classical conditioning; Nictitating membrane; α-Amino-3-hydroxy-5-methylisoxazole-4-propionic acid; Quisqualate receptor; Cerebellum; Autoradiography (Hauge, S.A. (803) 9)

Cyclic adenosine monophosphate
8-bromo-cyclic adenosine monophosphate; Circadian; Serotonin; Brain slice; Aging (Ruby, N.F. (779) 338)

Cyclic AMP
Adenylyl cyclase; Astrocyte; Desensitization; 5-Hydroxytryptamine; 5-HT_7 receptor; Frontal cortex; Neuron (Shimizu, M. (784) 57)

Metabotropic glutamate receptors; Adenosine; Cross-talk (Cartmell, J. (791) 191)

Suprachiasmatic nucleus; Circadian rhythm; Serotonin; Neuropeptide Y; Brain slice (Prosser, R.A. (808) 31)

Suprachiasmatic nuclei; Circadian rhythm; Adenylyl cyclase; In situ hybridization histochemistry (Cagampang, F.R.A. (810) 279)

Heat shock; Heat shock protein 72 (HSP72); Heat shock cognate protein 70 (HSC70); Quercetin; N18TG2 cells (Zensho, H. (790) 278)

Cyclic GMP
Cerebral artery; Vasodilatation; Nitric oxide; Guanylate cyclase; Potassium channel (Onoue, H. (785) 107)

Nitric oxide synthase; Perinatal asphyxia; Hypothermia; Striatum; Rat pup (Loidl, C.F. (791) 303)

Nitric oxide; NO-releasing compound; Hyperalgesia; Nerve injury; Spinal cord (Inoue, T. (792) 263)

Soluble guanylyl cyclase; *Schistocerca gregaria*; Locust; Nitric oxide (Elphick, M.R. (800) 174)

Nitric oxide; Diurnal rhythm; Medial preoptic area (Pu, S. (808) 310)

Cyclic inhibition
Locomotion; Rhythm generation; Potassium; Walking; Motoneuron (Büschges, A. (783) 262)

Cyclic nucleotide
Newborn; Cerebral circulation (Armstead, W.M. (799) 44)

Opioid; Hypoxia; Glia (Armstead, W.M. (813) 398)

Cycloheximide
Delayed neuronal death; Apoptosis; Necrosis; *Bax*; ICE (Bossenmeyer, C. (787) 107)

D-cycloserine
Ataxia; Cerebellar mutant mice; D-serine ethylester; Glycine-binding site; Open field study (Saigoh, K. (808) 42)

Cyclooxygenase
Kainic acid; Lipoxygenase; Proenkephalin; Prodynorphin; Fra protein; Hippocampus (Kim, H.-C. (782) 337)

Cyclooxygenase-2
Excitotoxicity; Phospholipase A_2; Arachidonic acid; Reactive astrocyte; Glial scar; Hippocampus (Sandhya, T.L. (788) 223)

Cyclooxygenase
Oxyhemoglobin; Subarachnoid hemorrhage; Indomethacin; Acetylcholine; Histamine; Cyclooxygenase metabolite; Basilar artery (Tran Dinh, Y.-R. (790) 91)

Transient forebrain ischemia; Mechanism; Indomethacin; Apoptosis (Kondo, F. (791) 352)

Cyclooxygenase metabolite
Oxyhemoglobin; Subarachnoid hemorrhage; Cyclooxygenase; Indomethacin; Acetylcholine; Histamine; Basilar artery (Tran Dinh, Y.-R. (790) 91)

Cyclopentyladenosine
Action potential; Caffeine (Swanson, T.H. (784) 188)

N^6-Cyclopentyladenosine
Adenosine receptor; CGS 21680; γ-Aminobutyric acid; Bicuculline; Picrotoxin; Cerebral cortex (Phillis, J.W. (807) 193)

D-Cycloserine
NMDA receptor; Strychnine-insensitive glycine site; Hippocampus; MK-801; Spatial memory; Radial-arm maze; Rat (Kawabe, K. (814) 226)

Cyclosporin
Apoptosis; Aristolochic acid; Mitochondrial transition pore (Fall, C.P. (811) 143)

Cyclosporin A
Parkinson's disease; Mitochondrial permeability transition; Apoptosis; Mitochondrial membrane permeability (Seaton, T.A. (809) 12)

Calcineurin; Mitochondria; Mitochondrial permeability transition; Ischemia; Neuroprotection (Uchino, H. (812) 216)

Cyclosporine
Patch-clamp; Calcium channels; Potassium channels; Vagal afferents (Hay, M. (786) 243)

Cyclothiazide
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Glutamate; GYKI 52466; Concanavalin A; Receptor desensitization; Light response (Yang, J.-H. (797) 125)

AMPA receptor desensitization; Deactivation; Ampakine; EPSP; Benzamide; Benzoylpiperidine; Benzothiadiazide (Arai, A. (799) 230)

Excised patch; CA1; Pyramidal neuron; Theta burst; Long-term potentiation, LTP; Synaptic plasticity (Arai, A. (799) 235)

Cyclotron frequency
EEG; Morphine; Weak magnetic field (Vorobyov, V.V. (781) 182)

CYP19
Aromatase; Estrogen synthetase; Preoptic area; Medial basal hypothalamus; Amygdala; Cytochrome *P*450 (Roselli, C.E. (811) 105)

Cysteine
Cochlea; Reactive oxygen species; Glutathione; Buthionine; Oxothiazolidine carboxylate; Noise-induced hearing loss; Guinea pig (Yamasoba, T. (784) 82)

Neonate; Hypoxia–ischemia; Neurotoxicity; Sulfur-containing amino acid; Excitatory amino acid (Puka-Sundvall, M. (797) 328)

Cytoarchitecture
Hypothalamus; Preoptic area; Rhesus monkey; Sex difference; Human (Byne, W. (793) 346)

Cytochalasin D
Cone pedicles; Horizontal cells; Synaptic plasticity; Nucleolus-like body; Teleosts retina; Light- and dark-adaptation; Cytoskeleton (De Juan, J. (792) 173)

Cytochrome a_3^{2+}
Carotid body; Ca^{2+} channel-blocker; Intracellular Ca^{2+} store; Metabolic inhibition; O_2 chemoreception model (Mokashi, A. (803) 194)

Cytochrome oxidase
Ototoxicity; Glial fibrillary acidic protein; Brainstem (Rosen, J.H. (813) 177)

Cytochrome P450
Aromatase; Estrogen synthetase; Preoptic area; Medial basal hypothalamus; Amygdala; CYP19 (Roselli, C.E. (811) 105)

6-OHDA; Hypoxia; Substantia nigra; Hydroxyl radical; Oxidative stress; Parkinson's disease (Dajas-Bailador, F.A. (813) 18)

Cytochrome P450 aromatase
Anabolic–androgenic steroid; Androgen; Androgen receptor (Roselli, C.E. (792) 271)

Cytokeratin
Actin; Parvalbumin; Cochlear hair cells; Mammalian; Neodifferentiation; Electron microscopy; Confocal microscopy (Parietti, C. (813) 57)

Cytokine
MoMuLV (Moloney murine leukemia virus)-*ts*1; Central nervous system; Neurodegeneration; Cell death; Tumor necrosis factor α; Fas; Fas ligand (Choe, W. (779) 1)

Interleukin-1; Interleukin-2; Interleukin-6; Intracranial self stimulation; Reward; Psychoneuroimmunology (Anisman, H. (779) 177)

Microglia; Astrocyte; Glia; Interleukin-12; Helper T cell (Suzumura, A. (787) 139)

Chemokine; mRNA; Brain injury; Cortical lesion (Hausmann, E.H.S. (788) 49)

Astrocyte; Gliosis; Cell culture; Neuroglia; CNTF (Levison, S.W. (803) 189)

Nodose ganglia; Immune-to-brain communication; Autonomic; Immediate-early gene; Immunohistochemistry (Goehler, L.E. (804) 306)

β-amyloid (Aβ); Alzheimer's disease (AD); CD40; Interferon-γ (IFN-γ); Interleukin-1β (IL-1β) (Suo, Z. (807) 110)

Nitric oxide; Human; Astrocyte; Adult; Culture (Zhao, M.-L. (813) 402)

Microglia; Propentofylline; Dibutyryl cAMP; Nitric oxide; Superoxide (Si, Q. (812) 97)

Cytoskeleton
Traumatic brain injury; Cat; Neurofilament; Phosphorylation; Calcium (Okonkwo, D.O. (784) 1)

Calpain proteolysis; Spectrin; Silver stain; Selective vulnerability; Delayed cell death; Hippocampus; Field potentials (Bartus, R.T. (790) 1)

Cone pedicles; Horizontal cells; Synaptic plasticity; Cytochalasin D; Nucleolus-like body; Teleosts retina; Light- and dark-adaptation (De Juan, J. (792) 173)

Cytosolic Ca
Neurotoxin; Exocytosis; Amperometry; Catecholamine (Liu, J. (799) 55)

Cytosolic Ca^{2+} concentration
Adrenal chromaffin cell; Fura-2; Cd^{2+}; Co^{2+}; 1,4,5-IP_3 (Yamagami, K. (798) 316)

Cytosolic calcium
Fura-2; Ca^{2+} channel antagonist; Voltage-gated Ca^{2+} channel; Primary sensory neuron; Vagal afferent (Sato, M. (813) 203)

Cytotoxicity
Alzheimer's disease; β-Amyloid peptide; Complement activation; C5b-9; MAC; Complement inhibitor; CD59; Neurodegeneration (Shen, Y. (796) 187)

CZE-LIFD
Conditioned taste aversion; Glutamate; Amygdala; Lateral hypothalamus; Microdialysis (Tucci, S. (813) 44)

D

D1
mPFC lesions; In situ hybridization histochemistry; Basal ganglia; D2; Enkephalin; GAD65; Substance P (Baca, S.M. (797) 55)

D2
mPFC lesions; In situ hybridization histochemistry; Basal ganglia; D1; Enkephalin; GAD65; Substance P (Baca, S.M. (797) 55)

DADLE
Opioid; Intracellular Ca^{2+}; Ca^{2+} store; IP_3; δ receptor; Kinase (Yoon, S.H. (802) 9)

DA-5-T-interaction
Substantia nigra; Microdialysis; D_1-receptor; D_2-receptor (Thorré, K. (796) 107)

Substantia nigra; Microdialysis; 5-HT_1 receptor; 5-HT_2 receptor; 5-HT_4 receptor (Thorré, K. (796) 117)

Daily cycle
Osmoregulation; Fos; Water deprivation; Water balance; Thirst; *Peromyscus* (Chae, H.E. (791) 1)

DAMGO
Paraventricular nucleus; Central nucleus of the amygdala; Naltrexone; Food intake (Giraudo, S.Q. (782) 18)

Baclofen; Estrogen; G-protein; GTPγS; μ-Opioid receptor (Cunningham, M.J. (791) 341)

Ventral Pallidum; Amygdala; Nucleus accumbens; Opioid; Tachykinin; Substance P; Excitatory amino acid; Glutamate; Neuromodulation (Mitrovic, I. (792) 193)

Nucleus of the solitary tract; Central nucleus of the amygdala; Naltrexone; Food intake (Giraudo, S.Q. (802) 184)

2,3-diaminonaphthalene (DAN)
Traumatic brain injury (TBI); Cerebral ischemia; Nitric oxide synthase (NOS); NO end product; Nitrite/nitrate (NO_x); Cortex; Hippocampus (Rao, A.M. (793) 265)

D1 antagonist
Dopamine; Nucleus accumbens; Prefrontal cortex; Self-stimulation; Brain-stimulation reward; Rat (Duvauchelle, C.L. (811) 57)

DA receptor
Neuroprotection; Dopamine; Trophic factor; Purification (Ling, Z.D. (791) 137)

DBA mice
Glutamate; Kainate; AMPA; Receptor; C57 mice; Seizure; Epilepsy (Kürschner, V.C. (780) 1)

db / db mouse
Glucose; Insulin; Cerebellum; Granule cell; Exercise (Vannucci, S.J. (797) 1)

DCG-IV
Presynaptic glutamate receptor; Group II metabotropic glutamate receptor; Glutamate release; Kindling; Epileptogenesis; Seizure; Lamotrigine (Attwell, P.J.E. (805) 138)

5,7-DCKA
NMDA receptor/glycine site; Striatum; Muscle rigidity (Lorenc-Koci, E. (793) 315)

DC potential
Carbon monoxide; Cortical spreading depression; Energy metabolism; Mitochondrial NADH (Meilin, S. (780) 323)

Repetitive hypoxia; Hypothermia; Hippocampal slice; Neuroprotection (Greiner, C. (786) 267)

D_3 dopamine receptor
mRNA; In situ hybridization; Human brain (Suzuki, M. (779) 58)

[^{3}H]PD 128907; Rat; Mouse; Guinea pig; Rabbit; Dog; Human (Levant, B. (800) 269)

7-OH-DPAT; Nafadotride; [^{14}C]-2-deoxyglucose; Local cerebral glucose utilization; Rat; Brain (Levant, B. (812) 193)

D_2 dopamine receptor agonist
Functional MRI; T2 *-weighted MRI; Bromocriptine; Haloperidol; D_2 dopamine receptor antagonist (Hagino, H. (813) 367)

D_2 dopamine receptor antagonist
Functional MRI; T2 *-weighted MRI; Bromocriptine; Haloperidol; D_2 dopamine receptor agonist (Hagino, H. (813) 367)

Deactivation
AMPA receptor desensitization; Cyclothiazide; Ampakine; EPSP; Benzamide; Benzoylpiperidine; Benzothiadiazide (Arai, A. (799) 230)

Deafferentation
Nucleus magnocellularis; Cell death; Auditory system; Cochlear nucleus; Ribosome (Hyson, R.L. (809) 214)

Death
Hypoxia; Neuron; Apoptosis; Gene; p53 (Banasiak, K.J. (797) 295)

Decay time constant
Hippocampus; Glutamate receptor model; Channel kinetics (Kolta, A. (788) 269)

Decreased cell number
MK-801; Pilocarpine; Epileptogenesis; NMDA; Epilepsy; Interictal spike (Rice, A.C. (782) 240)

Deermouse
Indoleamine; Wild mouse; Photoperiod; Cartography; Neuroendocrine; Hypothalamus (Phelix, C.F. (808) 197)

Defense
Analgesia; Morphine; Opioid; Freezing; Nociception (Morgan, M.M. (804) 159)

Defense rage behavior
Hypothalamus; GABA; $GABA_A$ receptor; Muscimol; Bicuculline; Fluoro-Gold; Immunocytochemistry; Cat (Cheu, J.W. (783) 293)

Defense reaction
Autonomic nervous system; Cardiovascular regulation; Emotion; Pain; Periaqueductal gray matter; Precommissural nucleus; Pseudorabies virus; Stellate ganglion (Jansen, A.S.P. (784) 329)

Autonomic nervous system; Cardiac function; Emotion; Fight-or-flight response; Lateral hypothalamic area; Paraventricular hypothalamic nucleus; Periaqueductal gray matter; Precommissural nucleus; Pseudorabies virus; Raphe magnus nucleus (Farkas, E. (792) 179)

Defensive behavior
Kindling; Seizure; Temporal lobe epilepsy; Fear; Hippocampus; Caudate; Amygdala (Kalynchuk, L.E. (779) 149)

Defensive rage
Cholecystokinin; CCK receptor; Hypothalamus; Midbrain periaqueductal gray; Predatory attack; Cat (Luo, B. (796) 27)

Degeneration
METH; Toxicity; *p53* (Cadet, J.L. (786) 240)

Kainic acid; Neurotrophin; Brain-derived neurotrophic factor; trkB receptor; Basal forebrain; Hippocampus (Venero, J.L. (790) 270)

Wobbler mouse; Motoneuron disease; Early detection; Behavior; Righting reflex (Bose, P. (813) 334)

Dehydration
Dizocilpine; Drinking; c-*fos* expression; NMDA R1 receptor (Xu, Z. (784) 91)

Dehydroepiandrosterone
Neurosteroid; Nitric oxide; Aging; Pregnenolone; NMDA receptor; Dizocilpine; Learning; Memory; Passive avoidance; Plus-maze (Reddy, D.S. (799) 215)

Dehydroepiandrosterone sulfate
Neurosteroid; Pregnenolone sulfate; Learning and memory; σ Receptor; Passive-avoidance performance; Haloperidol; Mouse (Reddy, D.S. (791) 108)

Deiodinase
Thyroxine; Triiodothyronine; Human; Brain; Tumor (Calvo, R.M. (801) 150)

Delayed cell death
Calpain proteolysis; Spectrin; Silver stain; Selective vulnerability; Hippocampus; Field potentials; Cytoskeleton (Bartus, R.T. (790) 1)

Delayed dysfunction
Long-term potentiation; Hippocampus (Mori, K. (795) 221)

Delayed excitation
Reticulospinal neuron; Command system; Locomotion; Spike frequency adaptation; Bursting (Rouse, D.T. (779) 301)

Delayed neuronal damage
Stroke; Ischemia; Excitotoxicity; Neurodegeneration; Glutaminase (Newcomb, R. (813) 103)

Delayed neuronal death
Mild hypothermia; Arachidonic acid (Kubota, M. (779) 297)

Apoptosis; Necrosis; Cycloheximide; *Bax*; ICE (Bossenmeyer, C. (787) 107)

Ischemia; Nerve growth factor (NGF); Hippocampus (Ishimaru, H. (789) 194)

Hypothermia; Gerbil; Forebrain ischemia; DNA fragmentation (Niwa, M. (794) 338)

Gerbil; DNA fragmentation; Forebrain ischemia; Apical dendrite (Hara, A. (806) 274)

Delayed non-matching to position
Pedunculopontine tegmental nucleus; Diazepam; Elevated plus maze; Anxiety; Rat (Leri, F. (807) 187)

Dementia
Neuropathology; Hippocampus; Limbic; Cortical column (Joyce, J.N. (784) 7)

Cognition; Memory; Menopause; Hippocampus; Neuroanatomy; Estrogen receptor (Register, T.C. (788) 320)

Demyelination
Anoxia; Dorsal column; Spinal cord; Spinal cord injury (Imaizumi, T. (779) 292)

Myelination index; Schwann cell; Neural plasticity; Spinal cord contusion; Paraplegia (Salgado-Ceballos, H. (782) 126)

Intraepidermal innervation; Medial plantar nerve; Pressure neuropathy; Renaut body; Tactile allodynia; Tactile hyperesthesia; Von Frey filament; Wallerian degeneration (Mizisin, A.P. (788) 13)

Dendrite
Integrin; Synapse; Glia; Brain; Distribution (Nishimura, S.L. (791) 271)

Laminin; Cerebellar culture; Granuloprival culture; Purkinje cell; Dendritic spine; Astrocyte; Neurite promoting factor; Synapse; Development; Regeneration (Seil, F.J. (795) 112)

Songbird; Cell morphology; Spine (Benton, S. (799) 138)

Dendritic arbor
Masseteric motoneuron; Trigeminal motor nucleus; HRP; IPSP; EPSP; Cat (Kamogawa, H. (785) 18)

Sexual dimorphism; Meadow vole; Prefrontal cortex; *Microtus pennsylvanicus* (Kavaliers, M. (810) 41)

Dendritic atrophy
Corticosterone; Golgi impregnation; Stress (Magariños, A.M. (809) 314)

Dendritic morphology
(−) Deprenyl; Primate brain region; AChE activity; MAO-A; MAO-B; CA3 pyramidal neuron (Lakshmana, M.K. (796) 38)

(−) Deprenyl; Primate brain region; AChE activity; MAO-A; MAO-B; CA3 pyramidal neuron (Lakshmana, M.K. (796) 38)

Dendritic spine
Laminin; Cerebellar culture; Granuloprival culture; Purkinje cell; Dendrite; Astrocyte; Neurite promoting factor; Synapse; Development; Regeneration (Seil, F.J. (795) 112)

Alzheimer's disease; Caspase; Mitochondrial transmembrane potential; Oxidative stress; Phosphatidylserine; Synaptosome (Mattson, M.P. (807) 167)

Dendritic sprouting
Vagus nerve; Nucleus ambiguus; Anastomosis; Heteroconnection; Supernumerary (Chang, S.-T. (805) 144)

Dendro-dendritic connection
Motoneuron; CTB-tracing; Gap-junction; Ultrastructure; Electrotonic coupling (Van der Want, J.J.L. (779) 342)

Dendrodendritic synapse
Field potential; Noradrenergic input; Olfaction; Paired-pulse inhibition (Okutani, F. (783) 272)

Denervation
Plasticity; Autonomic nervous system (Smith, P.G. (786) 171)

Dentate granule cell
Ischemia; Electrophysiology; Hippocampus; In vivo; CA3 pyramidal neuron (Howard, E.M. (798) 109)

Dentate gyrus
Kindling; Mossy fiber sprouting; Synaptic reorganization; Amygdala; Hippocampus; Seizure; Temporal lobe epilepsy (Armitage, L.L. (781) 37)

Long-term potentiation; Hippocampus; Synapsin I; mRNA (Morimoto, K. (783) 57)

Crocin; Ethanol; NMDA receptor; Hippocampus (Abe, K. (787) 132)

Long-term potentiation; LTP decay; Lead (Pb); In vivo; Hippocampus; Rat; Neurotoxicity; Learning and memory (Gilbert, M.E. (789) 139)

Kindling; Seizure classification; Spontaneous seizure; Epilepsy; Perforant path; Amygdala (Michael, M. (793) 197)

Medial amygdala; Long-term potentiation; Population spike; Population excitatory postsynaptic potential; Picrotoxin (Noguchi, K. (794) 151)

Feedforward excitation; Paired-pulse facilitation; Current source density; Medial perforant path; CA3 (Wu, K. (797) 35)

Transient forebrain ischemia; Excitatory synaptic transmission; Long-term potentiation; Neuronal excitability (Aoyagi, A. (799) 130)

Fast wave; Olfaction; Organic solvent; Phytochemical; Pyriform (piriform) cortex; Rhinencephalon (Zibrowski, E.M. (800) 207)

Nicotinamide adenine dinucleotide phosphate-diaphorase (NADPH-d); Neuronal nitric oxide synthase (nNOS); Spatial alternation; Frontal cortex; Rat (Zhang, S. (801) 101)

Kindling; Gliosis; Hippocampus; Hilus; Seizure; Plasticity (Adams, B. (804) 331)

Metabotropic glutamate receptors; Long-term potentiation; (*RS*)-2-Chloro-5-hydroxyphenylglycine; 1*S*,3*R*-1-Aminocyclopentate-1,3-dicarboxylic acid; (2*S*,3*S*,4*S*)-α-(Carboxycyclopropyl)-glycine; L-2-Amino-4-phosphono butyric acid (O'Leary, D.M. (809) 91)

APTRA; Ischemia; Inhibition; Hippocampus; Chelator (Spigelman, I. (810) 269)

6-Deoxy-6-β-[^{18}F]fluoronaltrexone
Parkinson's disease; Neurodegeneration; Positron emission tomography; Basal ganglia; Dopamine (Cohen, R.M. (806) 292)

2-deoxy-D-glucose
Food intake; Neuropeptide Y antibody; Paraventricular nucleus (He, B. (781) 348)

Feeding; Glucoprivation; MOR-1 clone; KOR-1 clone; DOR-1 clone; KOR-3/ORL-1 clone (Burdick, K. (794) 359)

Area postrema; Sympathoadrenomedullary; Hypothalamic-pituitary-adrenal axis; Glucoprivic feeding; Corticosterone (Edmonds, B.K. (801) 21)

Mercaptoacetate; Neuropeptide Y; Immunohistochemistry; Hormone; In situ hybridization (Wang, J. (804) 7)

Catecholamine neurons; Adrenal medulla; c-*fos*; Rat; Glucoprivation; Epinephrine; Norepinephrine (Ritter, S. (805) 41)

2-Deoxyglucose
Limbic seizure; Lithium–pilocarpine; Fos protein; HSP72; Stress response; Neuronal damage (Motte, J. (793) 61)

Depolarization
Magnesium; Fura-2; Mag-Fura-2; Dorsal root ganglion (Kato, H. (779) 329)

Potassium buffering; Glia; Postnatal neuronal cell culture; Nerve growth factor (Abiru, Y. (809) 115)

Depolarization block
Dopamine neuron; Chronic haloperidol; D-tubocurarine; Succinylcholine; Gallamine; Chloral hydrate (Melis, M. (783) 127)

Depotentiation
Long-term potentiation (LTP); Rhinal cortex; Perirhinal; Hippocampus (Cousens, G. (780) 95)

Deprenyl
Dopamine; GM1 ganglioside; MPTP; Substantia nigra pars compacta (Rothblat, D.S. (779) 226)

Endogenous amine; Gas chromatography-selected ion monitoring method; Monoamine oxidase; Parkinson's disease; Tetrahydroisoquinoline (Kotake, Y. (787) 341)

(−) Deprenyl
Primate brain region; AChE activity; MAO-A; MAO-B; Dendritic morphology; CA3 pyramidal neuron (Lakshmana, M.K. (796) 38)

Primate brain region; AChE activity; MAO-A; MAO-B; Dendritic morphology; CA3 pyramidal neuron (Lakshmana, M.K. (796) 38)

Depression
Synapse; Cocaine; MDMA; Methamphetamine; High-affinity uptake; Voltammetry; Electron microscopy; Immunocytochemistry; Autoradiography; Citalopram; Paroxetine (Zhou, F.C. (805) 241)

Depression-model rat
In vivo microdialysis; 3-Methoxy-4-hydroxyphenylethyleneglycol (MHPG); 3,4-Dihydroxy-phenylacetic acid (DOPAC); Reserpine (Yamashita, K. (785) 10)

Depressor response
Bradycardia; Chemoreceptor projection site; Pressor response; Tachycardia (Dhruva, A. (801) 88)

Deprivation
Rapid Eye Movement sleep; Recovery; Ambient Temperature; Homeostasis (Amici, R. (781) 252)

Descending and ascending inhibition
Thalamus; Nociception; Visceral sensation; Somatovisceral convergence; DNIC (Brüggemann, J. (787) 269)

Descending and segmental inhibitory control
Saline-induced muscle pain; Pressure pain sensibility (Graven-Nielsen, T. (787) 203)

Descending facilitation
Rostral ventral medulla; Secondary hyperalgesia; Plasticity (Calejesan, A.A. (798) 46)

Descending inhibition
Pain; Fos; Dorsolateral funiculus; Ventrolateral funilucus; Spinal cord (Wei, F. (782) 136)

Nociception; Propriospinal; *fos*; Immunohistochemistry (Jones, S.L. (788) 337)

Descending modulation
Intrathecal administration; 5-HT_3 receptors; Micturition; Pudendal nerve; Segmental reflex (Espey, M.J. (798) 101)

Desensitization
Adenylyl cyclase; Astrocyte; Cyclic AMP; 5-Hydroxytryptamine; 5-HT_7 receptor; Frontal cortex; Neuron (Shimizu, M. (784) 57)

Opioid-receptor; Cannabinoid-receptor; Adenylyl cyclase; GTP-binding protein; Pertussis toxin (Shapira, M. (806) 26)

Pain; Taste; Pungent; Tachyphylaxis (Liu, L. (809) 246)

Torpedo ACh receptor; Outside-out patch; Protein phosphorylation; Site-directed mutagenesis (Nishizaki, T. (812) 242)

Desipramine
Calcium channel; ω-Conotoxin GVIA; Exocytosis; Neurotransporter; Noradrenaline (Yamazaki, T. (794) 146)

Devazepide
Central nucleus of the amygdala; Paraventricular nucleus of the hypothalamus; Nucleus of the solitary tract; Arcuate nucleus; Fasting (Wang, L. (791) 157)

Developing brain
Methylmercury; Neurotoxicity; Fetal-type Minamata disease (Sakamoto, M. (784) 351)

Blood–brain barrier; Cerebrospinal fluid; Choroid plexus; Homeostasis; Iron; Transferrin receptor (Moos, T. (790) 115)

Developing cranial motoneurone
Cobalt loading; Glutamate receptor; Calcium permeable AMPA receptor; Excitatory amino acids; Membrane distribution (Launey, T. (781) 148)

Developing rat
Brain injury; Gamma irradiation; Astrocyte proliferation; Autoradiography; Immunocytochemistry; GFAP; S-100β protein (Setkowicz, Z. (803) 122)

Developing rat brain
Macrophage recruitment; BSI-B4 isolectin histochemistry; Astrocyte; Proliferation; ^{3}H-thymidine autoradiography (Janeczko, K. (812) 172)

Development
Melatonin; Serotonin *N*-acetyltransferase; Circadian rhythm; Egg; Cricket; *Gryllus bimaculatus*; Insect (Itoh, M.T. (781) 91)

Retina; GABA; Centrifugal fiber; Ganglion cell; Lamprey (Anadón, R. (782) 297)

Apoptosis; Neuron; Aging; Western blotting; Immunohistochemistry (Obonai, T. (783) 167)

GAP-43; Cerebellum; GABA; Glutamate; Cerebellar culture; Granule cell; Northern hybridization; In situ hybridization; mRNA (Console-Bram, L.M. (783) 316)

Pain; Windup; Slow excitatory postsynaptic potential (EPSP); *N*-Methyl-D-aspartate (NMDA) receptor (Hamba, M. (785) 66)

Comparative anatomy; Dove; Feeding; Quintofrontal; Trigeminal (Ye, S. (788) 349)

K^+ currents; Parasympathetic neurons; Shal (Dryer, L. (789) 162)

NMDA receptor; Subunit; mRNA; Hippocampus; Lead (Guilarte, T.R. (790) 98)

Ethanol; CNS neuron; Glutamate receptor; Intracellular calcium (Gruol, D.L. (793) 12)

Cocaine; Amphetamine; c-*fos*; Striatum; Sensitization (Snyder-Keller, A. (794) 88)

Laminin; Cerebellar culture; Granuloprival culture; Purkinje cell; Dendritic spine; Dendrite; Astrocyte; Neurite promoting factor; Synapse; Regeneration (Seil, F.J. (795) 112)

1,25-Dihydroxyvitamin D_3 receptor; Rat; Fetal; Central nervous system (Veenstra, T.D. (804) 193)

Imprinting; Insulin-like growth factor-II; H19; Biallelic (Pham, N.V. (810) 1)

Neurofilament proteins; Mossy fibers; Rat hippocampus; Fascia dentata; Immunocytochemistry (Mikuni, N. (811) 1)

Whole-cell patch clamp; Brain slice; Rat olfactory cortex neurone; Hyperpolarization-activated current; Slow h-current (I_h); Fast inward rectification; Specific I_h blocker: ZD 7288 (Sciancalepore, M. (814) 133)

Developmental change
$GABA_A$ receptor; Meynert neuron (Rhee, J.-S. (779) 9)

Development and regeneration
Glia and other non-neuronal cell; GFAP; Enteric glia; Chick; Gut (Balaskas, C. (804) 275)

Dexamethasone
Adenylyl cyclase; β-Adrenergic receptor; Aging; Cerebellum; Glucocorticoid (Slotkin, T.A. (800) 236)

Dexmedetomidine
cGMP; Alpha-2 adrenergic agonist; Opioid; Fentanyl; G protein; Pertussis toxin; Mouse; Cerebellum (Vulliemoz, Y. (813) 26)

2DG
VIP; Glucose; Glucagon; Insulin; Antagonist (Chun, S.-J. (809) 165)

2-deoxy-D-glucose (2-DG)
Neuropeptide Y (NPY); proDynorphin (proDYN); proEnkephalin (proENK); pro-opiomelanocortin (POMC); Periphery (Giraudo, S.Q. (792) 136)

5-7-DHT
Plasticity; NPY; 5-HT receptor; *p*-Chlorophenylalanine; Cortex; Rat (Compan, V. (795) 264)

Diabetes
Urinary bladder; Nerve growth factor (Steinbacher Jr., B.C. (782) 255)

Insulin; Hippocampus; Long-term potentiation; Learning; Water maze (Biessels, G.-J. (800) 125)

Formalin-induced nociception; Protein kinase C; Phorbol-12,13-dibutyrate; Calphostin C; Mouse (Ohsawa, M. (803) 198)

Diabetic neuropathy
Nicotinic acetylcholine receptor; Chung model; Morphine; Allodynia; Hyperalgesia (Bannon, A.W. (801) 158)

Diacylglycerol
Oleic acid; Glycerol; Phospholipid; Nerve growth factor; PC12 cell (Li, J. (803) 44)

Brain injury; Fluid percussion; Phospholipase Cγ; Phosphatidylinositol bisphosphate; Inositol trisphosphate (Carman, H.M. (808) 116)

Diagonal band
Acetylcholine; Hippocampus; Medial septum; Handling; Restraint; AMPA; NMDA; γ-Aminobutyric acid; Muscimol; Bicuculline (Moor, E. (789) 1)

Medial septum; M_3 receptor; Cholinergic; Acetylcholine; Basal forebrain (Liu, W. (805) 220)

Dialysis
Accumbens; Amphetamine; Glutamate (Dalia, A. (788) 111)

Diamidino yellow
Cortical motor area; Thalamocortical neuron; Corticocortical neuron; Fast blue; Statistical comparison (Wang, Y. (781) 137)

Lateral hypothalamic area; Zona incerta; Medial septal nucleus; Nucleus of diagonal band; Spinal cord; True-blue; Retrograde tracer; Anterograde tracer; Melanin-concentrating hormone; Neuropeptides (Bittencourt, J.C. (805) 1)

3,4-Diaminopyridine
Neuromuscular junction; Presynaptic current; Potassium current; Lambert–Eaton myasthenic syndrome treatment; Multiple sclerosis treatment; Motor nerve conduction (Miralles, F. (789) 239)

Diaphragm
Phrenic afferent fiber; Cervical spinal cord; Pericardium; Cardiac nociception (Chandler, M.J. (798) 93)

Diazepam
Ethanol withdrawal; Acetylcholine release; Microdialysis; γ-hydroxybutyrate (Imperato, A. (784) 347)

Morphine; Opioid; Benzodiazepine; μ-Opioid receptor; Constitutive receptor; Tolerance; Brain region; Spinal cord; Peripheral tissue; CNS (Tejwani, G.A. (797) 305)

PNU-101017; Benzodiazepine receptor; Gerbil; Ischemia; Hippocampal CA_1 neuron (Hall, E.D. (798) 325)

Spermine; Neurotoxicity; Spatial learning; Retention; [^{3}H]PK11195 binding (Conway, E.L. (800) 10)

Pedunculopontine tegmental nucleus; Delayed non-matching to position; Elevated plus maze; Anxiety; Rat (Leri, F. (807) 187)

Self-sustaining status epilepticus; Antiepileptic drugs; Phenytoin; Refractoriness (Mazarati, A.M. (814) 179)

Diazoxide
Brain; Hypoxia; Purine; Pyrimidine; K_{ATP} channel; Tolbutamide (Pissarek, M. (812) 164)

Dibutyryl cAMP
Microglia; Propentofylline; Cytokines; Nitric oxide; Superoxide (Si, Q. (812) 97)

Dichoptic presentation
Eye movement; Optokinetic nystagmus; Alternating OKN; Binocular rivalry (Wei, M. (813) 406)

Diet-resistance
Obesity; Fos; Paraventricular nucleus; Ventromedial nucleus; Dorsomedial nucleus; Arcuate nucleus (Levin, B.E. (808) 317)

Differential neuronal activation
Median preoptic nucleus (MnPO); Preoptic area; Immediate-early gene (Patronas, P. (798) 127)

Differentiation
Retinal pigmented epithelium; Photoreceptors; trkB; BDNF; Trophic factors (Hackett, S.F. (789) 201)

Neuronal; NTera-2; Promoter; cAMP (Fennell, M. (799) 243)

Motoneuron; Excitotoxicity; Kainate; Astrocyte; Culture; Mouse (Vandenberghe, W. (807) 1)

Diffuse noxious inhibitory controls
Nociception; C-fiber; Nucleus raphe magnus (Dualé, C. (803) 208)

Diffusion
MRI; Hyperglycemia; ADC; MCAO; Stroke (Huang, N.C. (788) 137)

Perfusion; Magnetic resonance imaging (MRI); Anti-ICAM-1; Focal cerebral ischemia; Rat (Jiang, Q. (788) 191)

Island of Calleja; NOS; cGMP; Nitric oxide; Co-localization (De Vente, J. (789) 175)

Diffusion tensor
Anisotropic diffusion; Brain asymmetry; Neural connectivity (Peled, S. (780) 27)

Digastric reflex
Inferior alveolar nerve; Motor control; Mastication; Freely behaving rabbit (Yamamura, K. (796) 257)

Digoxigenin
In situ PCR; Gene transfer; β-Galactosidase; Rat brain; Polymerase chain reaction; *lac* Z gene; Herpes simplex virus (Yin, J. (783) 347)

Inducible transcription factor; Immediate early gene; In situ hybridization (Beer, J. (794) 255)

Dihydropyridine
Anticonvulsant; Nimodipine; Calcium channel antagonist; Pentylenetetrazole; Electroshock (Zapater, P. (796) 311)

3,4-Dihydroxyphenylacetic acid
Aging; 4-Hydroxy-3-methoxyphenylacetic acid; D-amphetamine; Microdialysis; F344BNF$_1$ rat (Yurek, D.M. (791) 246)

3,4-Dihydroxy-phenylacetic acid (DOPAC)
Depression-model rat; In vivo microdialysis; 3-Methoxy-4-hydroxyphenylethyleneglycol (MHPG); Reserpine (Yamashita, K. (785) 10)

3,4-Dihydroxyphenylglycolaldehyde
Mitochondrial permeability transition; Apoptosis; Neurotoxin; Alzheimer's disease (Burke, W.J. (787) 328)

1,25-Dihydroxyvitamin D_3 receptor
Rat; Fetal; Central nervous system; Development (Veenstra, T.D. (804) 193)

Diisopropyl fluorophosphate
Dorsal cochlear nucleus; Endogenous acetylcholine; Spontaneous activity; Fusiform cell; Cartwheel cell (Chen, K. (783) 219)

Diisopropyl phosphorofluoridate
Tau protein; CaM kinase II; Hen; Phosphorylation; Organophosphorus-induced delayed neurotoxicity (Gupta, R.P. (813) 32)

Dimaprit
Suprachiasmatic nucleus; Histamine; Circadian; Entrainment; Phase-shift; Light; Syrian hamster (Scott, G. (783) 1)

Dimethyl sulfoxide
Chronic brain hypoperfusion; Ischemia; Fructose 1,6-diphosphate; Memory (De la Torre, J.C. (779) 285)

Acidosis; Astrocyte; In vitro; Metallothionein; Acidosis; mRNA; Quercetin; Bioflavonoid (Conklin, D.R. (794) 304)

6,7-Dinitroquinoxaline-2,3-dione
Kainate; α-Amino-3-hydroxy-5-methyl-4-isoxazolepropionate; MK-801; Indomethacin; Temperature (Yanase, T. (798) 304)

Dipsogenic response
Non-NMDA antagonist and agonist; NMDA antagonist (Xu, Z. (808) 124)

Directional firing
Hippocampus; Single unit; Place field; Spatial memory; Polynomial surface; Hierarchical cluster analysis (Martin, P.D. (783) 249)

Directional selectivity
Immediate early gene; Fos; GABA; Acetylcholine; Nicotinic receptor (Araki, C.M. (794) 333)

Directional sensibility
Skin; Human (Olausson, H. (808) 120)

Direction coding
Kinesthesia; Muscle afferent; Proprioception; Voluntary movement; Velocity coding (Ribot-Ciscar, E. (791) 167)

Disinhibition
Epilepsy; $GABA_A$ receptor; Facilitation; Hippocampal slice; El mouse (Fueta, Y. (779) 324)

Frequency potentiation; Synchronization; Non-NMDA type glutamate receptors; $GABA_B$ receptors; CA3; El mouse (Fueta, Y. (792) 79)

Dissociated neurons
Acetylcholine; Calcium; Dopamine; GabaA; Muscimol; Striatum; Vesamicol (Login, I.S. (779) 33)

Distal colon
Barrington's nucleus; Pontine micturition center; Locus coeruleus; Irritable bowel syndrome; Transsynaptic tracing; Pseudorabies virus; Retrograde tracing (Pavcovich, L.A. (784) 355)

Distribution
Integrin; Synapse; Dendrite; Glia; Brain (Nishimura, S.L. (791) 271)

Diurnal
Immediate-early gene; *Arvicanthis niloticus*; Suprachiasmatic nucleus; Fos; Rhythm (Katona, C. (791) 27)

Testosterone; FSH; Testis; Body weight; Sex difference; Free-running; Rodent (Goel, N. (792) 229)

Diurnal rhythm
Nitric oxide; Cyclic GMP; Medial preoptic area (Pu, S. (808) 310)

Diving response
Parabrachial; Kölliker–Fuse; Solitarius; Trigeminal; Sensory–autonomic integration (Dutschmann, M. (809) 221)

Dizocilpine
Drinking; Dehydration; c-*fos* expression; NMDA R1 receptor (Xu, Z. (784) 91)

Spontaneous diazepam withdrawal; Ifenprodil; Long-term diazepam treatment; Drug-admixed food (DAF) method; Fischer 344 rat (Tsuda, M. (790) 82)

Aging; Brain slice; Hippocampus; Hypoxia; Ion transport; Potassium ion homeostasis (Roberts Jr., E.L. (791) 321)

Neurosteroid; Nitric oxide; Aging; Pregnenolone; Dehydroepiandrosterone; NMDA receptor; Learning; Memory; Passive avoidance; Plus-maze (Reddy, D.S. (799) 215)

Feeding behavior; NMDA receptor; Dopamine receptor antagonist; Adrenal corticotropic hormone; Elevated plus maze (Ninan, I. (812) 157)

D_2-like receptor
Alkylating agent; D_3 receptor; Dopamine; EEDQ; 7-OH-DPAT; Fluphenazine; Autoradiography; Accumbens; Islands of Calleja (Yeghiayan, S.K. (792) 324)

D2 mice
B6 mice; Seizure; Epilepsy; Electroconvulsive shock; Genetics; Quantitative trait loci (Ferraro, T.N. (813) 207)

DMXB
NMDA receptor; Neuroprotection; Nicotinic; Ischemia; Mecamylamine (Shimohama, S. (779) 359)

DNA fragmentation
AMPA; Cerebellar granule cell; Rat; Metabolic inhibition; Neurotoxicity; Cyanide, NaCN; Glutamate; $[Ca^{2+}]_i$ (Cebers, G. (779) 194)

ET-18-OCH_3; PAF; Heat shock protein; Astrocyte; Apoptosis (Renis, M. (783) 143)

Hypothermia; Delayed neuronal death; Gerbil; Forebrain ischemia (Niwa, M. (794) 338)

Spinal cord ischemia; Motor neuron death; Fas antigen (Sakurai, M. (797) 23)

Delayed neuronal death; Gerbil; Forebrain ischemia; Apical dendrite (Hara, A. (806) 274)

DNA repair
Cell cycle; Programmed cell death; Neurotrophin; Neuronal cell death (Araki, T. (794) 239)

DNIC
Thalamus; Nociception; Visceral sensation; Somatovisceral convergence; Descending and ascending inhibition (Brüggemann, J. (787) 269)

Allodynia; Neuropathic pain; Capsaicin (Witting, N. (801) 206)

Blink reflex; Interneuron; Convergence; Trigeminus; Brainstem (Ellrich, J. (803) 161)

DNQX
Apoptosis; Hypoxia; Neuron; Oxidative stress; Trolox (Copin, J.-C. (784) 25)

Dog
Advanced glycation end product; Neuron; Cerebellum; Aging; Purkinje cell (Weber, K. (791) 11)

D_3 dopamine receptor; [^{3}H]PD 128907; Rat; Mouse; Guinea pig; Rabbit; Human (Levant, B. (800) 269)

Aging; Tau; Amyloid; Phosphorylation; Neuron; Oligodendrocyte; Plaque (Wegiel, J. (802) 259)

DOI
VMN; TFMPP; Quipazine; Ketanserin; Serotonin (Wolf, A. (779) 84)

Neuropeptide Y; RU 24969, TFMPP, Hypothalamic paraventricular nucleus; Serotonin; Food intake; Energy substrate utilization (Currie, P.J. (803) 212)

Melatonin; Suprachiasmatic nucleus; Temperature; c-*fos*; mCPP (Kennaway, D.J. (806) 257)

L-DOPA
Dopamine; Repeated administration; Parkinson's disease; Brain microdialysis (Brannan, T. (784) 148)

Parkinson's disease; MPTP-treated monkey; Unit recordings of the globus pallidus (GPe, GPi) (Boraud, Th. (787) 157)

6-Hydroxydopamine; Nigral transplant; Striatum; 5-Hydroxytryptophan; Serotonin; Microdialysis; Rat (Ishida, Y. (788) 207)

Niemann–Pick type C disease; Serotonin; Glycine; Tyrosine hydroxylase; Cerebellum (Yadid, G. (799) 250)

Olfactory receptor neurons; Dopamine; Norepinephrine; DOPAC; HPLC (Lucero, M.T. (807) 234)

6-OHDA lesion; Striatum; Substantia nigra; Lidocaine; Turning behavior (Mura, A. (808) 48)

DOPAC
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Bupropion; Potassium; Haloperidol; Microdialysis; Striatum; Dopamine; Time course; Axotomy; Rat (Holson, R.R. (808) 182)

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Acetylcholine; Calcium; Dissociated neurons; GabaA; Muscimol; Striatum; Vesamicol (Login, I.S. (779) 33)

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Lesch–Nyhan syndrome; 6-Hydroxydopamine; Fixed ratio discrimination training; Striatum; Apomorphine (Stodgell, C.J. (783) 10)

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Bupropion; Potassium; Haloperidol; Microdialysis; Striatum; DOPAC; Time course; Axotomy; Rat (Holson, R.R. (808) 182)

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Dopamine receptor
Dopamine; A 68930 ((1*R*,3*S*)-1-aminoethyl-5,6-dihydroxy-3-phenylisochroman HCl); 7-OH-DPAT ((±) 7-hydroxy-2-(di-*n*-propylamino)tetralin HBr); Thermoregulation; Locomotor activity; Rat (Salmi, P. (781) 188)

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Dopamine; Locomotion; Nucleus accumbens; Amphetamine; Protein kinase C (Browman, K.E. (814) 112)

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Dopamine transporter
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Lewis rat; Fisher 344 rat; Nucleus accumbens; Dopamine receptor (Flores, G. (814) 34)

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Dorsal root rhizotomy
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Double immunofluorescent labeling
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DPDPE
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D-$_1$ receptor
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DA-5HT-interaction; Substantia nigra; Microdialysis; D_2-receptor (Thorré, K. (796) 107)

D_2 receptor
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DA-5HT-interaction; Substantia nigra; Microdialysis; D_1-receptor (Thorré, K. (796) 107)

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dy^{2J} / dy^{2J}
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Endomorphin 2
Endomorphin 1; Vagal afferent; Bradycardia; Hypotension; Opiate; μ-Opiate receptor (Kwok, E.H. (803) 204)

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Epileptogenic focus
Temporal lobe epilepsy; Epileptogenesis; Nonlinear dynamics; Nonlinear association analysis; Surrogate data (Le Van Quyen, M. (792) 24)

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Cornea; Enkephalin; Opioid receptor; Eye; Wound healing; Growth factor (Zagon, I.S. (803) 61)

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Estradiol benzoate
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Estrogen receptor
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Calcitonin gene-related peptide; Dorsal root ganglion; Estrogen; Ovariectomy; Sexual difference (Yang, Y. (791) 35)

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Self-administration; Sucrose; Reinforcement; Cerebral metabolism; 2-[^{14}C]deoxyglucose method (Porrino, L.J. (791) 18)

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Conditioned place preference paradigm; Foot shock stress; Rewarding effect; μ-Opioid receptor; δ-Opioid receptor (Matsuzawa, S. (803) 169)

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$GABA_A$ receptor; Phosphorylation; Patch-clamp, dorsal root ganglion; Rat, RT-PCR; Potentiation (Zhai, J. (805) 116)

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$GABA_A$ receptor; Ethanol dependence; Gender; Neuroactive steroid (Devaud, L.L. (796) 222)

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5-(*N*-Ethyl-*N*-isopropyl)-amiloride
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ET-18-OCH_3
PAF; Heat shock protein; Astrocyte; Apoptosis; DNA fragmentation (Renis, M. (783) 143)

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$GABA_A$-BDZ receptor; Striatum; Locomotor activity; Benzodiazepine inverse agonist; *Xenopus oocyte*; $GABA_A$ subunit (June, H.L. (794) 103)

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HIOMT; Neuropeptide Y; Pineal; Melatonin; 5-methoxytryptophol; Seasonal rhythms (Ribelayga, C. (801) 137)

Evans blue
BBB022; Middle cerebral artery occlusion; BBB; Rat (Belayev, L. (787) 277)

$GABA_A$ receptor; Bicuculline; Plasma extravasation; Formalin-induced inflammation; Spinal cord; Kaolin/carrageenan-induced inflammation (John, J.M. (794) 320)

Event-related potential
Hippocampus; Neocortex; Amygdala; Nucleus accumbens; N1; P2; Reward; Attention (Ehlers, C.L. (780) 138)

Mismatch negativity; Selective attention; Auditory stream segregation; Auditory sensory memory (Sussman, E. (789) 130)

Mismatch negativity; Auditory; Perception; Frequency; Cortex; Lesion; Sensory memory; Hemispace (Alain, C. (812) 23)

Evoked potentials
Plasticity; EEG; FFT; Barrel field; Rat (Musiał, P. (786) 1)

Excised patch
Cyclothiazide; CA1; Pyramidal neuron; Theta burst; Long-term potentiation, LTP; Synaptic plasticity (Arai, A. (799) 235)

Excitatory amino acid
Basal ganglia; Glutamate; Metabotropic; Phosphoinositide (Tallaksen-Greene, S.J. (780) 210)

Cerebral circulation; Newborn; Theophylline; Nitric oxide (Bari, F. (780) 237)

Spontaneous augmented breath; Inspiratory neuron; NMDA; AP-5; Non-NMDA; CNQX; Iontophoresis (Takeda, M. (781) 194)

Nucleus paragigantocellularis; Anterograde transport; Noradrenaline; Arousal (Van Bockstaele, E.J. (784) 123)

Scopolamine; Neurotoxicity; Muscarinic receptor (Rami, A. (788) 323)

Glutamate; Competitive antagonism; Vasopressin; Neurosecretion; Coagonist hypothesis (Currás, M.C. (789) 181)

Glutamate; Periaqueductal grey; Electron microscopy; Immunocytochemistry (Azkue, J.J. (790) 74)

Ventral Pallidum; Amygdala; Nucleus accumbens; Opioid; DAMGO; Tachykinin; Substance P; Glutamate; Neuromodulation (Mitrovic, I. (792) 193)

In vitro study; Inhibitory amino acid; Spinal rhythmic activity (Bonnot, A. (793) 136)

N-acetylaspartylglutamate; Oligodendrocyte; Microglia; Alzheimer's disease; Huntington's disease; Peptide (Passani, L. (794) 143)

Neonate; Hypoxia–ischemia; Cysteine; Neurotoxicity; Sulfur-containing amino acid (Puka-Sundvall, M. (797) 328)

Drug abuse; Kynurenine; Monoamine; Ontogeny (Rassoulpour, A. (802) 111)

Cat; Exercise pressor reflex; Spinal cord; Muscle afferent neuron; Blood pressure (Wilson, L.B. (807) 222)

Spinal lemniscus; Glycine; GABA; Locomotion (Vinay, L. (808) 279)

Nucleus accumbens; Dopamine; (1*S*,3*R*)-ACPD; Metabotropic glutamate receptor; Locomotor activity; Amphetamine (Meeker, D. (812) 260)

Excitatory amino acid receptors
Nipecotic acid; NNC-711; GABA uptake; β-Alanine (Do Nascimento, J.L.M. (798) 217)

Excitatory amino acids
Cobalt loading; Glutamate receptor; Calcium permeable AMPA receptor; Membrane distribution; Developing cranial motoneurone (Launey, T. (781) 148)

Excitatory postsynaptic current
Hippocampal neuron; Brain-derived neurotrophic factor; Synaptic transmission; NMDA receptor; Non-NMDA receptor (Song, D.-K. (799) 176)

Excitatory postsynaptic potential
Adenosine outflow; Ischemia; Hippocampal slice (Latini, S. (794) 325)

Excitatory synaptic transmission
Transient forebrain ischemia; Long-term potentiation; Neuronal excitability; Dentate gyrus (Aoyagi, A. (799) 130)

Excitatory transmission
Glutamate; Protease; Neuropeptide (Luthi-Carter, R. (795) 341)

Excitotoxicity
Neurodegeneration; Calcium deposits; Hydroxyapatite; Calcium binding proteins; Glial reaction (Herrmann, G. (786) 205)

Rat brain; Ammonia; Hyperammonemia; Kynurenic acid (Saran, T. (787) 348)

Nucleus basalis magnocellularis; Quisqualic acid; Nerve growth factor; Choline acetyltransferase; Low-affinity nerve growth factor receptor (Winkler, J. (788) 1)

Phospholipase A_2; Cyclooxygenase-2; Arachidonic acid; Reactive astrocyte; Glial scar; Hippocampus (Sandhya, T.L. (788) 223)

Oxidative stress; Glutamate toxicity; Superoxide dismutase (Schwartz, P.J. (789) 32)

Microdialysis; *N*-methyl-D-aspartate; Histology; Rat (Vanický, I. (789) 347)

Transneuronal degeneration; Basal ganglia; Substantia nigra reticulata; Programmed cell death (DeGiorgio, L.A. (795) 1)

Immunohistochemistry; Purkinje cell; Signal transduction; Proto-oncogene; Granule cell; Stellate/basket cell; Undercutting the cortex (Chen, S. (795) 87)

Heparan sulphate proteoglycan; Perlecan; Reactive astrocyte; Glial scar; Amyloid plaque (Shee, W.L. (799) 292)

Kainate; Hippocampus; CGS21680; ZM241385; Adenosine; Purines; A2 receptors (Jones, P.A. (800) 328)

Cortistatin; Kainic acid; Somatostatin receptor; Neuroprotection; Seizure; Epilepsy (Braun, H. (803) 54)

Pregnenolone sulfate; NMDA receptor; Steroids (Weaver Jr., C.E. (803) 129)

Motoneuron; Kainate; Astrocyte; Differentiation; Culture; Mouse (Vandenberghe, W. (807) 1)

Taurine release; Hippocampal slice; Ischemia; Release mechanism (Saransaari, P. (807) 118)

Glutamate; Hydroxyl radical; Microdialysis; Striatum; Rat (Lancelot, E. (809) 294)

Kainate; Glutamate; Calcium; Motoneuron (Terro, F. (809) 319)

Stroke; Ischemia; Neurodegeneration; Glutaminase; Delayed neuronal damage (Newcomb, R. (813) 103)

Excitotoxin
[^{3}H]-DAMGO; Neurotoxicity (Ridd, M.J. (814) 26)

Exercise
Glucose; Insulin; *db*/*db* mouse; Cerebellum; Granule cell (Vannucci, S.J. (797) 1)

Exercise pressor reflex
Cat; Excitatory amino acid; Spinal cord; Muscle afferent neuron; Blood pressure (Wilson, L.B. (807) 222)

Exocytosis
Dopamine; Amperometry; Vesicle type; Amphetamine; *Planorbis corneus* (Anderson, B.B. (788) 294)

Calcium channel; ω-Conotoxin GVIA; Desipramine; Neurotransporter; Noradrenaline (Yamazaki, T. (794) 146)

Botulinum type-A toxin; Neuromuscular junction; Motor nerve sprouting; Synaptotagmin II; α-Latrotoxin; La^{3+} (Angaut-Petit, D. (797) 357)

Neurotoxin; Amperometry; Cytosolic Ca; Catecholamine (Liu, J. (799) 55)

Chromaffin cell; Intracellular Ca^{2+}; $I_{K(Ca)}$; Bradykinin; Caffeine (Kim, S.J. (799) 197)

Experimental allergic encephalomyelitis
Calpain; Optic neuritis; Optic nerve; Neutral proteinase (Shields, D.C. (784) 299)

Calpain; Calpastatin; Calcium; Neutral proteinase; Multiple sclerosis (Shields, D.C. (794) 68)

Experimental epilepsy
Kainic acid; Perirhinal cortex; Sensorimotor cortex; Secondary generalization (Imamura, S.-i. (800) 323)

Experimental stroke
Cerebral ischemia; Neuroprotective; AMPA; MR imaging (Häberg, A. (811) 63)

Exploration
Microdialysis; Object recognition; Y-maze (Giovannini, M.G. (784) 218)

Neuropeptide Y; Locus coeruleus; Anxiety; Elevated plus-maze (Kask, A. (788) 345)

Anxiety; Motor activity; Huntington's disease; Benzodiazepine receptor (File, S.E. (805) 234)

Cerebellum; Motivation; Habituation; Lurcher mutant mouse (Caston, J. (808) 232)

Interleukin-1; Interleukin-2; Interleukin-6; Attention; Schizophrenia (Zalcman, S. (811) 111)

Rat; Open field; In vivo microdialysis; Acetylcholine; Reinforcement; Learning; Novelty; Arousal; Attention; Aversion (Thiel, C.M. (812) 121)

Expression
Glutamate receptors; Modulation; Environmental enrichment (Gagné, J. (799) 16)

Extended amygdala
Bed nucleus of the stria terminalis; Cocaine; D-1 receptor; Dopamine; Rat; SCH 23390; Self-administration (Epping-Jordan, M.P. (784) 105)

GAD; Interneuron; Drug addiction (Morales, M. (798) 333)

External anal sphincter
Electromyographic recording technique; Noradrenergic neuron; Adrenoceptor; Locus coeruleus; Cat; Opioid (Abysique, A. (795) 147)

Extracellular K^+
EEG burst suppression; Multiparametric brain monitoring; Cerebral ischemia; Mitochondrial redox state; Cerebral blood flow; Ischemic depolarization (Zarchin, N. (780) 230)

Extracellular matrix
Glycosaminoglycan; Nervous system; Neocortical development (Kappler, J. (793) 328)

Hippocampus; Tissue plasminogen activator; LTP (Hoffman, K.B. (811) 29)

Hippocampus; Subiculum; Plasticity; Gene expression; In situ hybridization (Hoffman, K.B. (812) 209)

Extracellular matrix chondroitin sulfate
Proteoglycan; Glycosaminoglycan; Lectin; Layer 5 pyramidal neurons (Ojima, H. (786) 274)

Extracellular pH
Aging; Brain slice; Hippocampus; Intracellular pH; Intrinsic buffering power; Ion transport; pH Regulation (Roberts Jr., E.L. (779) 271)

Extracellular pH change
Hippocampal slice; NMDA receptor; Hypoxia/ischemia; Patch clamp tight-seal whole cell recording (Saybasili, H. (786) 128)

Extracellular recording
Acute plasticity; Receptive field; Trigeminal; Infraorbital nerve; Subnucleus interpolaris (Klein, B.G. (779) 136)

Reinnervation; Repair; Graft (Zhou, W. (788) 202)

Central amygdaloid nucleus; Lateral bed nucleus of the stria terminalis; Insular cortex; Thalamic paraventricular nucleus; Electrical stimulation (Veinante, P. (794) 188)

Baroreceptor-related neuron; Insular cortex; Monkey (Zhang, Z.-H. (796) 303)

$GABA_B$ receptor; Supraoptic neuron; Baclofen; 2OH-saclofen (Ibrahim, N. (813) 88)

Extrahypothalamus
Corticotropin-releasing factor; Seizure; Hypothalamus; Neuronal injury; Neuronal degeneration (Piekut, D.T. (781) 100)

Extrapyramidal
Neuroleptic; Microdialysis; Behavior; Neurotransmitter (O'Connor, W.T. (787) 299)

Extra-pyramidal side effects
Akathisia; Fos; Neuroleptics; β-adrenoceptor antagonist; Propranolol (Ohashi, K. (802) 134)

Eye
Corneal epithelium; Limbal epithelium; Conjunctival epithelium; Opioid; [Met^5]-enkephalin; Preproenkephalin; Cell renewal mRNA; In situ hybridization (Zagon, I.S. (792) 72)

Cornea; Epithelium; Wound healing; Opioid; [Met^5]-enkephalin; Rat (Zagon, I.S. (798) 254)

Cornea; Enkephalin; Epithelium; Opioid receptor; Wound healing; Growth factor (Zagon, I.S. (803) 61)

Eyeblink
Classical conditioning; Protein synthesis; Interposed nucleus; Intermediate cerebellum; Rabbit (Bracha, V. (788) 169)

Eye movement
Vestibular compensation; GABA; Search coil (Magnusson, A.K. (795) 307)

Optokinetic nystagmus; Alternating OKN; Binocular rivalry; Dichoptic presentation (Wei, M. (813) 406)

F

Facilitation
Epilepsy; Disinhibition; $GABA_A$ receptor; Hippocampal slice; El mouse (Fueta, Y. (779) 324)

Corticosteroid; Glucocorticosteroid receptor; Hippocampus; Learning and memory; Rat (Oitzl, M.S. (797) 159)

Failure to thrive
Wasting disorder; Feeding; Food deprivation; Ontogeny; Gene expression; Hypothalamus; 5-Hydroxytryptamine (Jahng, J.-W. (790) 67)

Family history
Alzheimer's disease; Cerebrospinal fluid; Interleukin-6; Soluble interleukin-6 receptor; ELISA (Hampel, H. (780) 356)

Fas
MoMuLV (Moloney murine leukemia virus)-*ts*1; Central nervous system; Neurodegeneration; Cytokine; Cell death; Tumor necrosis factor α; Fas ligand (Choe, W. (779) 1)

Fas antigen
Spinal cord ischemia; Motor neuron death; DNA fragmentation (Sakurai, M. (797) 23)

Fascia dentata
Neurofilament proteins; Mossy fibers; Rat hippocampus; Development; Immunocytochemistry (Mikuni, N. (811) 1)

Fas ligand
MoMuLV (Moloney murine leukemia virus)-*ts*1; Central nervous system; Neurodegeneration; Cytokine; Cell death; Tumor necrosis factor α; Fas (Choe, W. (779) 1)

Fast blue
Cortical motor area; Thalamocortical neuron; Corticocortical neuron; Diamidino yellow; Statistical comparison (Wang, Y. (781) 137)

Fast-cyclic voltammetry
Dopamine; $GABA_A$ receptor; $GABA_B$ receptor; Nucleus accumbens; Ventral tegmental area; Heroin self-administration (Xi, Z.-X. (798) 156)

Fastigial nucleus
Neuroprotection; Conditioning; Electrical stimulation; Focal infarction; Middle cerebral artery occlusion (Reis, D.J. (780) 161)

Fasting
Devazepide; Central nucleus of the amygdala; Paraventricular nucleus of the hypothalamus; Nucleus of the solitary tract; Arcuate nucleus (Wang, L. (791) 157)

Fast inward rectification
Whole-cell patch clamp; Brain slice; Rat olfactory cortex neurone; Development; Hyperpolarization-activated current; Slow h-current (I_h); Specific I_h blocker: ZD 7288 (Sciancalepore, M. (814) 133)

Fast wave
Dentate gyrus; Olfaction; Organic solvent; Phytochemical; Pyriform (piriform) cortex; Rhinencephalon (Zibrowski, E.M. (800) 207)

Fatty acid
Arachidonic acid; Autoradiography; Basal ganglia; Brain metabolism; Functional brain imaging; 6-Hydroxydopamine; Parkinson's disease; Phospholipase A_2 (Hayakawa, T. (807) 177)

F344BNF$_1$ rat
Aging; 3,4-Dihydroxyphenylacetic acid; 4-Hydroxy-3-methoxyphenylacetic acid; D-amphetamine; Microdialysis (Yurek, D.M. (791) 246)

Fear
Kindling; Seizure; Temporal lobe epilepsy; Defensive behavior; Hippocampus; Caudate; Amygdala (Kalynchuk, L.E. (779) 149)

Startle; Corticotropin releasing hormone; Nucleus reticularis pontis caudalis (Birnbaum, S.G. (782) 318)

c-*fos*; NGFI-A; zif268; Amygdala; Conditioning (Rosen, J.B. (796) 132)

Anxiety; Startle; Conditioned inhibition; Medial geniculate (Heldt, S.A. (813) 274)

Fear conditioning
Fos production; Stress; Hippocampus; Amygdala; Parietal cortex (Milanovic, S. (784) 37)

Fear-conditioning
RU28318; RU 38486; Corticosterone; Corticosteroid; Learning; Memory; Rat (Cordero, M.I. (786) 11)

Fear conditioning
Median raphe nucleus; Freezing; Behavioral inhibition (Avanzi, V. (790) 178)

Fear-potentiated startle
Amygdala; Nucleus accumbens; Dopamine D_1 receptor; SCH 23390; Mesoamygdaloid DA (Lamont, E.W. (795) 128)

Feature conjunction
Mismatch negativity; Transient auditory memory (Sussman, E. (793) 95)

Feedforward excitation
Paired-pulse facilitation; Current source density; Medial perforant path; Dentate gyrus; CA3 (Wu, K. (797) 35)

Feeding
Food restriction; Opioid; c-Fos (Carr, K.D. (779) 26)

LY206130; Fluoxetine; Pindolol; $5HT_{1A}$ receptor (Li, D.L. (781) 121)

Food deprivation; Meal patterns; Neuropeptide Y; Perifornical hypothalamus (Marín Bivens, C.L. (782) 271)

Amygdala; Acetylcholine; Microdialysis; Hypoglycemia; Insulin; Glucose; Rat (Hajnal, A. (785) 41)

Comparative anatomy; Development; Dove; Quinto-frontal; Trigeminal (Ye, S. (788) 349)

Wasting disorder; Failure to thrive; Food deprivation; Ontogeny; Gene expression; Hypothalamus; 5-Hydroxytryptamine (Jahng, J.-W. (790) 67)

Hypothalamus; Immunohistochemistry; In situ hybridization; Plasticity (Cheng, X. (792) 89)

2-deoxy-D-glucose; Glucoprivation; MOR-1 clone; KOR-1 clone; DOR-1 clone; KOR-3/ORL-1 clone (Burdick, K. (794) 359)

Interleukin; Tumor necrosis factor; Leptin; Neuropeptide Y; Opioid; Glucocorticoid; Corticotropin; Endotoxin; Nervous system; Cerebellum; Hippocampus; Hypothalamus; Food intake; RNase protection; Competitive RT–PCR (Gayle, D. (795) 77)

Metabolism; Vagus nerve; Metabolic inhibition; Caudal brainstem (Horn, C.C. (801) 107)

Palatability; Reward; c-Fos; Opioid; Naltrexone (Park, T.H. (805) 169)

Feeding behavior
2,5-Anhydro-D-mannitol; c-Fos; Food intake; Hunger; Rat; Metabolism (Horn, C.C. (779) 17)

Methyl palmoxirate; c-Fos; Food intake; Hunger; Metabolism; Rat (Horn, C.C. (781) 8)

Histamine; H_1 receptor; H_2 receptor; H_3 receptor; Intracereboventricular infusion; Urine excretion; Water intake (Lecklin, A. (793) 279)

Brain; Microdialysis; Dopamine; Acetylcholine; Nucleus accumbens; Galanin; Neuropeptide Y; Paraventricular nucleus; Hypothalamus; Microinjection (Rada, P. (798) 1)

Xenin; Intracerebroventricular injection; Hypothalamic injection; Satiety; Food intake (Alexiou, Ch. (800) 294)

PYY; Acetylcholine; Microdialysis; HPLC; Hyperphagia (Hagan, M.M. (805) 20)

Glucagon-like peptide-1 (GLP-1); Fragment; Central; Chicken (Furuse, M. (807) 214)

Dizocilpine; NMDA receptor; Dopamine receptor antagonist; Adrenal corticotropic hormone; Elevated plus maze (Ninan, I. (812) 157)

Microdialysis; Post-feeding; Dopamine; Nucleus accumbens (Kaneyuki, H. (794) 166)

Feeding-entrained anticipatory activity
Circadian rhythms; c-Fos; Neonatal rabbits; Supraoptic nucleus; Paraventricular hypothalamic nucleus (Allingham, K. (783) 210)

Female
Rat; Male; Metestrous; Vasoactive intestinal peptide; GnRH; Medial preoptic area; Double labeling immunocytochemistry; Light microscopy (Horvath, T.L. (795) 277)

5-HT receptor agonist; Sexual behavior; Proestrous (Wolf, A. (804) 206)

Female rat
Lordosis behavior; Hormone; Serotonin; 8-OH-DPAT (Jackson, A. (796) 299)

Vigilance state; EEG spectral analysis; Sleep regulation (Schwierin, B. (811) 96)

Female sexual behavior
Agonistic behavior; Lactation; Lordosis; Maternal behavior; Mesencephalon; Suckling (Lonstein, J.S. (804) 21)

Fenfluramine
5-Hydroxytryptamine (5-HT, serotonin) antidepressant; Hypothalamus; Estrous; Gender (Gundlah, C. (785) 91)

Serotonin; Fluoxetine; TFMPP; 8-OH-DPAT; Food intake (Currie, P.J. (800) 62)

Phentermine; Serotonin; Dopamine; Striatum (Balcioglu, A. (813) 67)

Fentanyl
cGMP; Alpha-2 adrenergic agonist; Dexmedetomidine; Opioid; G protein; Pertussis toxin; Mouse; Cerebellum (Vulliemoz, Y. (813) 26)

Ferret
Inferior alveolar nerve; Neuroma; Neuropeptide; Neuropathic pain (Long, A. (791) 263)

Ferritin
Iron; Neurotrophic factors; Transferrin; Transferrin receptor; Neuron (Dickinson, T.K. (801) 171)

Fetal
1,25-Dihydroxyvitamin D_3 receptor; Rat; Central nervous system; Development (Veenstra, T.D. (804) 193)

Fetal alcohol effects
Alcohol; Motor learning; Plasticity; Cerebellum (Klintsova, A.Y. (800) 48)

Fetal alcohol syndrome
Medial septum/diagonal band; γ-aminobutyric $acid_A$ receptor; Postnatal ethanol treatment; Neuronal development; Patch-clamp electrophysiology (Hsiao, S.-H. (810) 100)

Fetal brain
Free radical; Hypoxia; In utero; Peroxidation; Na^+,K^+-ATPase (Maulik, D. (798) 166)

Fetal-type Minamata disease
Methylmercury; Neurotoxicity; Developing brain (Sakamoto, M. (784) 351)

Fever
Autonomic nervous system; Herpes virus; Hypothalamus; Medulla oblongata; Oxytocin; Paraventricular hypothalamic nucleus; Periaqueductal gray matter; Preoptic region; Pseudorabies virus; Raphe magnus; Sympathetic nervous system; Temperature regulation; Viral transneuronal tracing (Smith, J.E. (786) 153)

Apoptosis; Lipopolysaccharide; Brain (Mouihate, A. (805) 95)

α-MSH; Stress; Corticosterone; Food intake; Water intake (Milligan, E.D. (810) 48)

Fever mechanism
Interleukin-6; Interleukin-1; Interleukin-1 receptor antagonist; Blood–brain barrier (Akarsu, E.S. (803) 137)

FFT
Plasticity; Evoked potentials; EEG; Barrel field; Rat (Musial, P. (786) 1)

FGF
Apoptosis; In vitro; Neurotrophin; TGF-β2; IGF (Oorschot, D.E. (789) 315)

FGF-9 immunoreactivity
Fibroblast growth factor; Alzheimer's disease; Senile plaque; Dystrophic neurite (Nakamura, S. (814) 222)

Fiber track degeneration
Brain injury; Neural degeneration; Neurobehavior (Matthews, M.A. (794) 1)

Fiber volley
Axonal conduction; Glutamate; Presynaptic; Pre-terminal; TTX (Mikulec, A.A. (796) 231)

Fibrillation
Aggregation; Lewy body; NACP/α-synuclein; Parkinson's disease (Hashimoto, M. (799) 301)

Fibroblast
Adenosine; Nucleoside; Ciliary ganglion neuron (Wakade, A.R. (788) 69)

Fibroblast growth factor
Spinal cord injury; NBQX (Follesa, P. (782) 306)

Fibroblast growth factor-9
Neurotrophic factor; Brain; Neuron; Immunohistochemistry (Todo, T. (783) 179)

Fibroblast growth factor
FGF-9 immunoreactivity; Alzheimer's disease; Senile plaque; Dystrophic neurite (Nakamura, S. (814) 222)

Field potential
Dendrodendritic synapse; Noradrenergic input; Olfaction; Paired-pulse inhibition (Okutani, F. (783) 272)

Calpain proteolysis; Spectrin; Silver stain; Selective vulnerability; Delayed cell death; Hippocampus; Cytoskeleton (Bartus, R.T. (790) 1)

Ischemia; Hypoxia; Potassium (Schmidinger, A. (794) 28)

Fight-or-flight response
Autonomic nervous system; Cardiac function; Defense reaction; Emotion; Lateral hypothalamic area; Paraventricular hypothalamic nucleus; Periaqueductal gray matter; Precommissural nucleus; Pseudorabies virus; Raphe magnus nucleus (Farkas, E. (792) 179)

Filament aggregation
Lewy body; NACP; Synuclein; Parkinson's disease; Neuronal degeneration (Arima, K. (808) 93)

Film model
Pyrimidine compound; MS-818; Migratory Schwann cell; Neural regeneration (Torigoe, K. (787) 337)

Fimbria–fornix
Entorhinal cortex; Passive avoidance acquisition; Tetrodotoxin; Functional inactivation (Baldi, E. (799) 270)

Fimbria–fornix lesion
Protein kinase C (PKC); PKC-α; PKC-βII; Septum; Plasticity (Shimohama, S. (781) 343)

Firing rate
Aortic depressor nerve; Barosensitive neuron; Barosensitivity; Coefficient of variation; Skewness; Neurogenic hypertension; Rostral ventrolateral medulla (Han, Y.M.Y. (813) 262)

Fischer 344 rat
Spontaneous diazepam withdrawal; Dizocilpine; Ifenprodil; Long-term diazepam treatment; Drug-admixed food (DAF) method (Tsuda, M. (790) 82)

Fisher 344 rat
Lewis rat; Nucleus accumbens; Dopamine receptor; Dopamine transporter (Flores, G. (814) 34)

FITC-dextran
Cerebral venule; Pial arteriole; Inducible nitric oxide; Aminoguanidine; Brain; Rat (Mayhan, W.G. (792) 353)

Fixed-ratio discrimination training
Parkinson's disease; 6-Hydroxydopamine; Replacement therapy; Striatum; Accumbens; Dopamine; Apomorphine; Amphetamine (Van Keuren, K.R. (780) 56)

Lesch–Nyhan syndrome; 6-Hydroxydopamine; Striatum; Dopamine; Apomorphine (Stodgell, C.J. (783) 10)

FK506
FK506 binding protein; Calcineurin; Cerebral ischemia; Cerebral blood flow; Gerbil (Nozaki, H. (781) 1)

Rapamycin; Ca^{2+}-dependent K^+ channel; Rat cultured hippocampal neuron; Single-channel activity (Terashima, A. (786) 255)

Rat; Chronic cerebral ischemia; White matter change; Microglia (Wakita, H. (792) 105)

FK960
Hippocampus; Long-term potentiation; Cognitive enhancer; Somatostatin; Acetylcholine; Mossy fiber-CA3 pathway (Matsuoka, N. (794) 248)

FK506 binding protein
FK506; Calcineurin; Cerebral ischemia; Cerebral blood flow; Gerbil (Nozaki, H. (781) 1)

FKPB
Axotomy; Immunophilin; MAP kinase phosphatase; Regeneration (Winter, Ch. (801) 198)

Flexor reflex
C-fibre; Rostral ventromedial medulla (RVM); Wind-up; Spino-bulbo-spinal; Inhibitory feedback mechanism (Gozariu, M. (792) 168)

Flow metabolic coupling
Laser Doppler flowmetry; Somatosensory cortex (Detre, J.A. (796) 91)

Fluid percussion
Brain injury; Phospholipase Cγ; Phosphatidylinositol bisphosphate; Diacylglycerol; Inositol trisphosphate (Carman, H.M. (808) 116)

Fluid percussion brain injury
Cerebral edema; Ifenprodil; Memory; Neurologic motor function; NMDA receptor blocker (Okiyama, K. (792) 291)

Lactate; Free fatty acids; Rat (Dhillon, H.S. (804) 231)

Fluid secretion
Blood–CSF-barrier; Choroid plexus epithelial cell culture; Cell polarity; Active transport; Organic anion exchanger (Hakvoort, A. (795) 247)

Flunarizine
Ca^{2+} current; Hippocampal CA1 region; Pyramidal neuron; Nilvadipine; Amlodipine (Ishibashi, H. (813) 121)

Fluo 3
Cerebral ischemia; CLSM; Rat; Hippocampus; Calcium; Fura Red (Grøndahl, T.Ø. (785) 58)

Fluo-3–Fura Red
Cerebral ischemia-anoxia; Thapsigargin; Hippocampus; Calcium; CLSM (Grøndahl, T.Ø. (796) 125)

Fluorescence immunohistochemistry
Monoamine oxidase; Enzyme histochemistry; Tyrosine hydroxylase; Locus coeruleus; Noradrenergic neuron (Hida, T. (814) 209)

Fluorescent double staining
Hyperglycemia; Cerebral ischemia; Capillary patency; Cerebral blood flow; Microcirculation (Li, P.-A. (782) 175)

Fluorescent histochemistry
Fluoro-gold; Iontophoresis; Tyrosine hydroxylase; mRNA; In situ hybridization (Cheung, S. (808) 174)

Fluorescent tracer
Visual projection; Thalamo-Wulst; Tectorotundal; Axon collateral; Double labeling; Chicken (Deng, C. (794) 281)

Fluoride
Aluminum; Neurotoxicity; Chronic; Cerebrovasculature; Neocortex; Hippocampus; Rat; Amyloid (Varner, J.A. (784) 284)

Fluoro-gold
Defense rage behavior; Hypothalamus; GABA; $GABA_A$ receptor; Muscimol; Bicuculline; Immunocytochemistry; Cat (Cheu, J.W. (783) 293)

Iontophoresis; Fluorescent histochemistry; Tyrosine hydroxylase; mRNA; In situ hybridization (Cheung, S. (808) 174)

Fluorowillardiine
CX614; Ampakine; Cyclothiazide; Hippocampus; Cortex (Kessler, M. (783) 121)

Fluoxetine
LY206130; Pindolol; Feeding; $5HT_{1A}$ receptor (Li, D.L. (781) 121)

Serotonin; Fenfluramine; TFMPP; 8-OH-DPAT; Food intake (Currie, P.J. (800) 62)

Fluphenazine
Alkylating agent; D_2-like receptor; D_3 receptor; Dopamine; EEDQ; 7-OH-DPAT; Autoradiography; Accumbens; Islands of Calleja (Yeghiayan, S.K. (792) 324)

Hypothalamus; Preoptic area; Slice system; ATP; Tamoxifen (Gray, J.M. (798) 223)

Flurothyl
Estrogen; Progesterone; Low magnesium; Convulsion; Forebrain; Brainstem; Entorhinal cortex (Velíšek, L. (796) 247)

FMT
(Eberling, J.L. (805) 259)

Focal cerebral ischemia
Diffusion; Perfusion; Magnetic resonance imaging (MRI); Anti-ICAM-1; Rat (Jiang, Q. (788) 191)

AMPA antagonist; Rat (Kawasaki-Yatsugi, S. (793) 39)

Topiramate; Antiepileptic agent; Neuroprotection; Infarct volume; Rat (Yang, Y. (804) 169)

Focal infarction
Fastigial nucleus; Neuroprotection; Conditioning; Electrical stimulation; Middle cerebral artery occlusion (Reis, D.J. (780) 161)

Focal ischemia
Middle cerebral artery; Penumbra zone; Ischemic depolarization; Spreading depression; Cerebrolysin; MK-801; Rat (Koroleva, V.I. (786) 104)

MCA; Rat-model; Low molecular weight heparin (Li, P.-A. (801) 220)

Hyperglycemia; Capillary patency; Pathology; Leukocyte; Cerebral blood flow (Li, P.-A. (804) 36)

Food deprivation
Feeding; Meal patterns; Neuropeptide Y; Perifornical hypothalamus (Marín Bivens, C.L. (782) 271)

Wasting disorder; Failure to thrive; Feeding; Ontogeny; Gene expression; Hypothalamus; 5-Hydroxytryptamine (Jahng, J.-W. (790) 67)

Hypothalamus; Obesity; Neuron (Huang, X.-F. (799) 307)

Food intake
2,5-Anhydro-D-mannitol; c-Fos; Feeding behavior; Hunger; Rat; Metabolism (Horn, C.C. (779) 17)

Obesity; Zucker rat; Third ventricle (Donahey, J.C.K. (779) 75)

Methyl palmoxirate; c-Fos; Feeding behavior; Hunger; Metabolism; Rat (Horn, C.C. (781) 8)

2-deoxy-D-glucose; Neuropeptide Y antibody; Paraventricular nucleus (He, B. (781) 348)

Paraventricular nucleus; Central nucleus of the amygdala; DAMGO; Naltrexone (Giraudo, S.Q. (782) 18)

Thermoregulation; Torpor; Metabolism (Ruby, N.F. (782) 63)

Antisense ODN; Ventromedial hypothalamus; Glutamic acid decarboxylase; GABA; Locomotor activity (Bannai, M. (784) 305)

Dopamine; Heroin; Microdialysis; Naltrexone (Taber, M.T. (785) 24)

Interleukin; Tumor necrosis factor; Leptin; Neuropeptide Y; Opioid; Glucocorticoid; Corticotropin; Endotoxin; Nervous system; Cerebellum; Hippocampus; Hypothalamus; Feeding; RNase protection; Competitive RT–PCR (Gayle, D. (795) 77)

Serotonin; Fenfluramine; Fluoxetine; TFMPP; 8-OH-DPAT (Currie, P.J. (800) 62)

Xenin; Intracerebroventricular injection; Hypothalamic injection; Feeding behavior; Satiety (Alexiou, Ch. (800) 294)

Nucleus of the solitary tract; Central nucleus of the amygdala; DAMGO; Naltrexone (Giraudo, S.Q. (802) 184)

Neuropeptide Y; DOI; RU 24969, TFMPP, Hypothalamic paraventricular nucleus; Serotonin; Energy substrate utilization (Currie, P.J. (803) 212)

Paraventricular nucleus; MT II; SHU9119; MC4-receptor (Giraudo, S.Q. (809) 302)

α-MSH; Stress; Fever; Corticosterone; Water intake (Milligan, E.D. (810) 48)

Food restriction
Opioid; c-Fos; Feeding (Carr, K.D. (779) 26)

Suprachiasmatic nucleus; Circadian rhythm; Ventromedial hypothalamus; Gold thioglucose (Challet, E. (801) 244)

Palatable diet; NPY mRNA; Arcuate nucleus; Rat (Kim, E.-M. (806) 117)

Footshock
Vasopressin; Oxytocin; Conditioned fear; Norepinephrine; Bed nucleus of the stria terminalis (Onaka, T. (788) 287)

Stress experience; Behaviour; Rats; Open field; Naloxone; Emotional stimulus (Van den Berg, C.L. (799) 6)

Foot shock stress
Ethanol; Conditioned place preference paradigm; Rewarding effect; μ-Opioid receptor; δ-Opioid receptor (Matsuzawa, S. (803) 169)

Forced oscillation
Baroreceptor reflex; Cardiac-related rhythm; Cat; Sympathetic nerve discharge (Zhou, S.-Y. (780) 155)

Forced swim test
Antidepressant; 1-(*m*-Chlorophenyl)-biguanide (mCPBG); ICS205-930; Rat (Nakagawa, Y. (786) 189)

Forebrain
Estrogen; Progesterone; Flurothyl; Low magnesium; Convulsion; Brainstem; Entorhinal cortex (Velíšek, L. (796) 247)

Blood pressure; Heart rate; Insular lateralization (Zhang, Z.-H. (813) 73)

Forebrain angiotensinergic mechanism
Hindbrain serotonergic mechanisms; Losartan (Vanderlei Menani, J. (801) 29)

Forebrain cholinergic neuron
Temporal lobe epilepsy; Neurotrophin; Septohippocampal neuron; Hippocampus (Correia, L. (809) 288)

Forebrain ischemia
Hypothermia; Delayed neuronal death; Gerbil; DNA fragmentation (Niwa, M. (794) 338)

Delayed neuronal death; Gerbil; DNA fragmentation; Apical dendrite (Hara, A. (806) 274)

Formalin
Antinociception; Hyperalgesia; Plantar test; Tramadol (Bianchi, M. (797) 163)

Chronic stress; Blood pressure; Heart rate; Pain; ACTH; Parabrachial (Bhatnagar, S. (797) 313)

Pain; Hyperalgesia; Cannabinoid; SR141716A (Strangman, N.M. (813) 323)

Monoamine; Noradrenaline; Serotonin; Pain; Inflammation; Pain modulation (Omote, K. (814) 194)

Formalin-induced inflammation
$GABA_A$ receptor; Bicuculline; Plasma extravasation; Evans Blue; Spinal cord; Kaolin/carrageenan-induced inflammation (John, J.M. (794) 320)

Formalin-induced nociception
Protein kinase C; Phorbol-12,13-dibutyrate; Calphostin C; Diabetes; Mouse (Ohsawa, M. (803) 198)

Formalin test
Glutamate; Aspartate; Periphery; Pain; Inflammation (Omote, K. (787) 161)

Analgesia; Naloxone; Opioid peptide; Rat (Kang, W. (792) 133)

Form-deprivation myopia
Ethylcholine mustard aziridinium (ECMA or AF64A); Quisqualic acid; Muscarinic acetylcholine receptor (mAChR); Retina (Fischer, A.J. (794) 48)

Forskolin
Arginine vasopressin; Imidazole; Papaverine; Adenylate cyclase inhibitor; Phosphodiesterase activator; Phosphodiesterase inhibitor; Superior cervical ganglion (Hogan, Y.H. (787) 242)

Fos
Egr-1; Intracerebroventricular renin; Captopril; SFO; AT_1 and AT_2 receptors (Xu, Z. (782) 24)

Pain; Descending inhibition; Dorsolateral funiculus; Ventrolateral funilucus; Spinal cord (Wei, F. (782) 136)

Medullary visceral zone; Habenular nucleus; Tyrosine hydroxylase; Catecholamine; Rat (Li, T. (783) 51)

Suckling stimulation; Parturition; Lactation; Maternal behavior (Lin, S.-H. (787) 226)

Frontal cortex; Striatum; AMPA; Kainate; NMDA; Basal ganglia; Attention (Schuller, J.J. (788) 315)

fos
Descending inhibition; Nociception; Propriospinal; Immunohistochemistry (Jones, S.L. (788) 337)

Fos
Hypovolemia; In situ hybridization; NADPH diaphorase; Nitric oxide synthase; Paraventricular nucleus; Polyethylene glycol; Supraoptic nucleus (Ueta, Y. (790) 25)

Osmoregulation; Daily cycle; Water deprivation; Water balance; Thirst; *Peromyscus* (Chae, H.E. (791) 1)

Immediate–early gene; *Arvicanthis niloticus*; Diurnal; Suprachiasmatic nucleus; Rhythm (Katona, C. (791) 27)

Immunohistochemistry; Haloperidol decanoate; Chronic treatment; Antipsychotic action; Limbic (Sun, Y.-J. (791) 125)

Immediate early gene; GABA; Acetylcholine; Nicotinic receptor; Directional selectivity (Araki, C.M. (794) 333)

FOS
Immunocytochemistry; Arachidonylethanolamide; Marijuana; Cannabinoid receptor (Patel, N.A. (797) 225)

Fos
Akathisia; Neuroleptics; β-adrenoceptor antagonist; Propranolol; Extra-pyramidal side effects (Ohashi, K. (802) 134)

Obesity; Diet-resistance; Paraventricular nucleus; Ventromedial nucleus; Dorsomedial nucleus; Arcuate nucleus (Levin, B.E. (808) 317)

6-Hydroxydopamine; Methamphetamine; Striatum; Substantia nigra pars reticulata; Transplant (Ishida, Y. (809) 107)

c-Fos
2,5-Anhydro-D-mannitol; Feeding behavior; Food intake; Hunger; Rat; Metabolism (Horn, C.C. (779) 17)

Food restriction; Opioid; Feeding (Carr, K.D. (779) 26)

Methyl palmoxirate; Feeding behavior; Food intake; Hunger; Metabolism; Rat (Horn, C.C. (781) 8)

Amphetamine; FRA; Immunohistochemistry; Striatum; Behavioral sensitization; Dopamine (Turgeon, S.M. (782) 329)

Circadian rhythms; Feeding-entrained anticipatory activity; Neonatal rabbits; Supraoptic nucleus; Paraventricular hypothalamic nucleus (Allingham, K. (783) 210)

Potassium; Brain injury; Glial fibrillary acidic protein; Immunohistochemistry (Herrera, D.G. (784) 71)

Maternal behavior; Medial preoptic area; Immediate early gene; Fos B (Numan, M. (792) 348)

Nucleus tractus solitarius; Learning; Lithium chloride; Aversion conditioning; Amygdala (Schafe, G.E. (800) 40)

Suprachiasmatic nucleus; Dorsomedial part; Circadian rhythm; Immediate-early gene; Spontaneous expression (Sumová, A. (801) 254)

Palatability; Feeding; Reward; Opioid; Naltrexone (Park, T.H. (805) 169)

Antinociception; Morphine tolerance; Spinal cord; Carrageenin; Dose–response (Le Guen, S. (813) 128)

Opioid; JunB; Serotonin receptor (Frankel, P.S. (814) 186)

Fos B
Maternal behavior; Medial preoptic area; Immediate early gene; c-Fos (Numan, M. (792) 348)

c-Fos expression
Subcutaneous bee venom injection; Persistent pain; Central change; Dorsal horn; Immunohistochemistry; Morphine; Rat (Luo, C. (806) 175)

Fos immunohistochemistry
Sensitization; Social stress; Cocaine; Ventral tegmental area; Dorsal raphe nucleus; Periaqueductal grey area; Locus coeruleus; Locomotion (Nikulina, E.M. (810) 200)

c-Fos immunohistochemistry
Spinal cord injury; Frontal cortex; Motor cortex; Axotomy; Plasticity (Ikeda, S. (792) 164)

Fos immunoreactivity
Hypothalamic paraventricular nucleus; Rostral ventrolateral medulla; Haemorrhage (Badoer, E. (791) 317)

Hypothalamic paraventricular nucleus; Rostral ventrolateral medulla; Hypotension (Badoer, E. (801) 224)

Fos production
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Fos protein
Limbic seizure; Lithium–pilocarpine; HSP72; Stress response; Neuronal damage; 2-Deoxyglucose (Motte, J. (793) 61)

Epibatidine; Nicotinic receptor; Immunohistochemistry; Brain; Rat (Watanabe, K.-i. (797) 135)

Brain stem; Hypovolemia; Cardiovascular system; Blood pressure (Anselmo-Franci, J.A. (799) 278)

Circadian clock; Locomotor activity rhythm; Phase shifts; Circadian times; Subjective night (Chambille, I. (808) 250)

Perirhinal cortex; Amygdala; Dorsal hippocampus; Kindling; Epilepsy (Sato, T. (811) 122)

Motor cortex; Ventrolateral medulla; Nucleus tractus solitarius; Biotinylated dextran; Rat (Ba-M'Hamed, S. (813) 411)

c-Fos protein
Lithium; Methamphetamine; Reverse tolerance; Ambulatory; Activity; Striatum; Geniculate nucleus (Namima, M. (782) 83)

FRA
Amphetamine; c-Fos; Immunohistochemistry; Striatum; Behavioral sensitization; Dopamine (Turgeon, S.M. (782) 329)

Fragment
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Fra protein
Kainic acid; Cyclooxygenase; Lipoxygenase; Proenkephalin; Prodynorphin; Hippocampus (Kim, H.-C. (782) 337)

Free fatty acid
Neuropeptide Y; Triglyceride; Anorexia; Cachexia; Obese gene product; Leptin receptor (Chance, W.T. (803) 27)

Fluid percussion brain injury; Lactate; Rat (Dhillon, H.S. (804) 231)

Freely behaving rabbit
Digastric reflex; Inferior alveolar nerve; Motor control; Mastication (Yamamura, K. (796) 257)

Free radical
Intracerebral hemorrhage; Magnetic resonance imaging; Animal behavior (Peeling, J. (795) 63)

Hypoxia; Fetal brain; In utero; Peroxidation; Na^+,K^+-ATPase (Maulik, D. (798) 166)

Alzheimer's disease; Amyloid; Electron paramagnetic resonance (EPR); Lipid peroxidation; Vitamin E (Koppal, T. (786) 270)

Pergolide; Dopamine agonist; Parkinson's disease; Lipid peroxidation; Scavenging effect; Antioxidant; Electron spin resonance (Gómez-Vargas, M. (790) 202)

Free-running
Testosterone; FSH; Testis; Body weight; Sex difference; Diurnal; Rodent (Goel, N. (792) 229)

Freezing
Median raphe nucleus; Fear conditioning; Behavioral inhibition (Avanzi, V. (790) 178)

Analgesia; Morphine; Opioid; Defense; Nociception (Morgan, M.M. (804) 159)

Frequency
Event-related potential; Mismatch negativity; Auditory; Perception; Cortex; Lesion; Sensory memory; Hemispace (Alain, C. (812) 23)

Frequency potentiation
Synchronization; Non-NMDA type glutamate receptors; $GABA_B$ receptors; Disinhibition; CA3; El mouse (Fueta, Y. (792) 79)

Frequency tuning
Dorsal cochlear nucleus; Anteroventral cochlear nucleus; Muscimol; Rat (Paolini, A.G. (785) 309)

Freshly isolated neuron
Glycine current; Ion channel; Patch clamp; Strychnine; Picrotoxin (Ye, J.H. (796) 53)

Freund's adjuvant arthritis
Circadian rhythms; Lymph nodes; Spleen; Ornithine decarboxylase; Tyrosine hydroxylase; Acetylcholine synthesis (Cardinali, D.P. (789) 283)

Frontal cortex
Rat brain; Cholecystokinin (CCK); mRNA; Pentylenetetrazol (PTZ); Hippocampus; Epilepsy; Clonic (Takeda, K. (779) 320)

NMDA; 5-HT; Raphe; WAY-100635; Intracerebral dialysis (Pallotta, M. (783) 173)

Adenylyl cyclase; Astrocyte; Cyclic AMP; Desensitization; 5-Hydroxytryptamine; 5-HT_7 receptor; Neuron (Shimizu, M. (784) 57)

Striatum; AMPA; Kainate; NMDA; Basal ganglia; Fos; Attention (Schuller, J.J. (788) 315)

Methylazoxy methanol acetate; Prenatal development; Entorhinal cortex; Rat; Schizophrenia (Talamini, L.M. (789) 293)

Preoptic area; Hypothalamus; Brain slices; Synaptosome; NMDA (Fiber, J.M. (790) 329)

Spinal cord injury; c-Fos immunohistochemistry; Motor cortex; Axotomy; Plasticity (Ikeda, S. (792) 164)

Apolipoprotein E; β-amyloid; Entorhinal cortex; Age; Gender (Johnson, J.K. (798) 18)

Nicotinamide adenine dinucleotide phosphate-diaphorase (NADPH-d); Neuronal nitric oxide synthase (nNOS); Spatial alternation; Dentate gyrus; Rat (Zhang, S. (801) 101)

GAERS; Low magnesium; Hippocampus; Entorhinal cortex; Paired pulse index (Armand, V. (803) 19)

Calcitonin; Hippocampus; 5-HT1A; Binding; Corticoid; Adrenalectomy (Boujrad, F. (812) 279)

Frontal lobe
Maze learning; Episodic memory; Procedural memory; Visuospatial memory; Positron emission tomography; Regional cerebral blood flow (Van Horn, J.D. (793) 29)

Fructose
Guinea pig; Hippocampal slice; Population spike; High energy phosphate; Glucose; Lactate; Mannose (Wada, H. (788) 144)

Fructose 1,6-diphosphate
Chronic brain hypoperfusion; Ischemia; Dimethyl sulfoxide; Memory (De la Torre, J.C. (779) 285)

FSH
Testosterone; Testis; Body weight; Sex difference; Free-running; Diurnal; Rodent (Goel, N. (792) 229)

Functional brain imaging
Arachidonic acid; Autoradiography; Basal ganglia; Brain metabolism; Fatty acid; 6-Hydroxydopamine; Parkinson's disease; Phospholipase A_2 (Hayakawa, T. (807) 177)

Functional hyperemia
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Functional inactivation
Entorhinal cortex; Fimbria–fornix; Passive avoidance acquisition; Tetrodotoxin (Baldi, E. (799) 270)

Functional MRI
$T2^*$-weighted MRI; Bromocriptine; Haloperidol; D_2 dopamine receptor agonist; D_2 dopamine receptor antagonist (Hagino, H. (813) 367)

Functional recovery
Theophylline; Cervical spinal cord injury; Hemidiaphragm; Phrenic nerve (Nantwi, K.D. (789) 126)

Functional synapse
Synchronized bursting; Neocortical neuron (Nakanishi, K. (795) 137)

Fura-2
Magnesium; Mag-Fura-2; Dorsal root ganglion; Depolarization (Kato, H. (779) 329)

Adrenal chromaffin cell; Cytosolic Ca^{2+} concentration; Cd^{2+}; Co^{2+}; 1,4,5-IP_3 (Yamagami, K. (798) 316)

Cytosolic calcium; Ca^{2+} channel antagonist; Voltage-gated Ca^{2+} channel; Primary sensory neuron; Vagal afferent (Sato, M. (813) 203)

Hypoxia; Calcium; Sodium; Glutamate; Glutamate transporter; Na^+–Ca^{2+} exchanger (Yamaguchi, S. (813) 351)

Fura-PE3
Calcium; Thermosensitive neuron; Dorsal root ganglion; Warm cell (Gotoh, H. (796) 319)

Fura Red
Cerebral ischemia; CLSM; Rat; Hippocampus; Calcium; Fluo 3 (Grøndahl, T.Ø. (785) 58)

Furosemide
Sodium depletion; Angiotensin II; AT-1 and AT-2 receptor subtype; Losartan; PD123319; Aldosterone (Liénard, F. (787) 171)

Fusiform cell
Dorsal cochlear nucleus; Endogenous acetylcholine; Spontaneous activity; Diisopropyl fluorophosphate; Cartwheel cell (Chen, K. (783) 219)

Fusimotor
Muscle spindle; Afferent; Summation; Dynamic; Static (Carr, R.W. (800) 97)

Fusion protein
Phosducin; Green fluorescence protein; Confocal microscopy; G proteins; Prostaglandin e1; Protein trafficking (Schulz, R. (790) 347)

FXPRLamide
Angiotensin I-converting enzyme; Insect; Neurotransmitter; Neuropeptide metabolism; Neuropeptide processing; Locustamyotropin; Pyrokinin; Pheromone biosynthesis activating neuropeptide (Schoofs, L. (785) 215)

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GABA
Central chemoreceptor; Respiration; Glutamate; Calcineurin; cAMP (Miura, M. (780) 34)

$GABA_A$
Ethanol; GT1–7; Chloride; Neuron; GnRH (Javors, M.A. (780) 183)

GABA
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Retina; Centrifugal fiber; Ganglion cell; Development; Lamprey (Anadón, R. (782) 297)

Defense rage behavior; Hypothalamus; $GABA_A$ receptor; Muscimol; Bicuculline; Fluoro-Gold; Immunocytochemistry; Cat (Cheu, J.W. (783) 293)

GAP-43; Cerebellum; Glutamate; Cerebellar culture; Granule cell; Northern hybridization; In situ hybridization; mRNA; Development (Console-Bram, L.M. (783) 316)

$GABA_A$
Propofol; Receptor isoform; Subunit; *Xenopus* oocyte (Lam, D.W. (784) 179)

GABA
Antisense ODN; Ventromedial hypothalamus; Glutamic acid decarboxylase; Food intake; Locomotor activity (Bannai, M. (784) 305)

MDMA; Nucleus accumbens; Dopamine; Serotonin (Obradovic, T. (785) 1)

Mushroom body; Associative memory; Insect; Brain; Inhibitory transmitter; Immunocytochemistry (Yamazaki, Y. (788) 80)

Primary afferent depolarization; Serotonin (5-HT); Capsaicin; Nociceptive afferent; Spinal dorsal horn (Khasabov, S.G. (789) 339)

Bipolar cell; Color opponency; GABA receptor; Retina; Carp (Zhang, D.-Q. (792) 319)

Immediate early gene; Fos; Acetylcholine; Nicotinic receptor; Directional selectivity (Araki, C.M. (794) 333)

Vestibular compensation; Eye movement; Search coil (Magnusson, A.K. (795) 307)

Neuronal excitability; Epilepsy; Intracellular pH; Glutamate; HEPES; Hippocampal slice (Bonnet, U. (796) 161)

Receptor; Immunocytochemistry; Alzheimer's disease; Hippocampus (Mizukami, K. (799) 148)

Kainic acid; Brain microdialysis; Glutamate; In situ hybridization; Immunohistochemistry (Ding, R.-g. (800) 105)

Ethanol; $GABA_A$ receptor; Rat; Neocortex; Electrophysiology; Alcohol (Soldo, B.L. (800) 187)

Stress; Elevated plus-maze; Metyrapone; Corticosterone; Chloride ion flux; Anxiety (Calvo, N. (800) 227)

Risperidone; Striatum; Globus pallidus; Dopamine; Serotonin (Grimm, J.W. (801) 182)

Glutaric acid; Organic acidemia; Neurotoxicity; Glutamate; Seizure; Turning behavior; Striatum (Lima, T.T.F. (802) 55)

Area prerubralis parafascicularis; Ventrolateral outgrowth; Compensatory eye movement (Toonen, M. (802) 267)

Dopamine; Locomotor activity; Conditioned reward; Ventral pallidum; Nucleus accumbens (Fletcher, P.J. (805) 29)

Nitric oxide; Periaqueductal gray; Blood pressure; Enkephalin; Glutamic acid; Hydroxylamine; TRIM; Sodium nitroprusside (Hall, C.W. (805) 69)

Trigeminal nerve; Nociception; Lamina II; Glycine; Inhibitory neurotransmitter; Colocalization (Dumba, J.S. (806) 16)

Anesthetic; Benzodiazepine; Radioligand; Allosterism (Bruner, K.R. (806) 122)

Subiculum; Topiramate; Na^+-electrogenesis; Rat (Kawasaki, H. (807) 125)

Circadian rhythms; Suprachiasmatic nucleus; γ-aminobutyric acid; Baclofen; Rat; Brain-slice (Biggs, K.R. (807) 250)

Non-genomic; Lordosis; Sexual behavior; Solicitation (Frye, C.A. (808) 72)

Spinal lemniscus; Excitatory amino acid; Glycine; Locomotion (Vinay, L. (808) 279)

Calcium; Phosphorylation; Receptor binding; Muscimol (Churn, S.B. (809) 68)

Glucose-responsive; Sulfonylurea; Neuropeptide Y; Dopamine; Norepinephrine; Ventromedial nucleus; Paraventricular nucleus; Arcuate nucleus (Dunn-Meynell, A.A. (814) 41)

Stereology; Immunohistochemistry; Hippocampus; Mouse (Jinno, S. (814) 55)

$GABA_A$
Acetylcholine; Calcium; Dissociated neurons; Dopamine; Muscimol; Striatum; Vesamicol (Login, I.S. (779) 33)

$GABA_A$ receptor
Attention; Benzodiazepine; Spatial memory; Learning and microinjection (Mao, J.-B. (784) 139)

$GABA_A$-BDZ receptor
EtOH sedation; Striatum; Locomotor activity; Benzodiazepine inverse agonist; *Xenopus oocyte*; $GABA_A$ subunit (June, H.L. (794) 103)

$GABA_B$ binding
PTZ kindling; $GABA_B$ receptor antagonists; CGP compounds; Learning; Memory retention (Getova, D. (809) 182)

GABA immunocytochemistry
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$GABA_A$ receptor
Meynert neuron; Developmental change (Rhee, J.-S. (779) 9)

Epilepsy; Disinhibition; Facilitation; Hippocampal slice; El mouse (Fueta, Y. (779) 324)

GABA receptor
L-Glutamate receptor; Glycine receptor; BIDN; Identified neurones; *Xenopus* oocyte (Hamon, A. (780) 20)

$GABA_A$ receptor
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Defense rage behavior; Hypothalamus; GABA; Muscimol; Bicuculline; Fluoro-Gold; Immunocytochemistry; Cat (Cheu, J.W. (783) 293)

Baclofen; 2-Hydroxysaclofen; Bicuculline methiodide; Blood pressure (DiMicco, J.A. (788) 245)

$GABA_B$ receptor
G protein; Postmortem human brain; Receptor/G protein coupling; High-affinity GTPase (Odagaki, Y. (789) 84)

$GABA_A$ receptor
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GABA receptor
Bipolar cell; Color opponency; GABA; Retina; Carp (Zhang, D.-Q. (792) 319)

$GABA_A$ receptor
Bicuculline; Plasma extravasation; Evans Blue; Formalin-induced inflammation; Spinal cord; Kaolin/carrageenan-induced inflammation (John, J.M. (794) 320)

Ethanol dependence; Gender; Neuroactive steroid; Ethanol withdrawal (Devaud, L.L. (796) 222)

Dopamine; $GABA_B$ receptor; Nucleus accumbens; Ventral tegmental area; Fast-cyclic voltammetry; Heroin self-administration (Xi, Z.-X. (798) 156)

$GABA_B$ receptor
Dopamine; $GABA_A$ receptor; Nucleus accumbens; Ventral tegmental area; Fast-cyclic voltammetry; Heroin self-administration (Xi, Z.-X. (798) 156)

$GABA_A$ receptor
GABA; Ethanol; Rat; Neocortex; Electrophysiology; Alcohol (Soldo, B.L. (800) 187)

ACh release; 5-HT_3 receptor; Ondansetron; Potassium channel blocker; Entorhinal cortex (Díez-Ariza, M. (801) 228)

Chronic ethanol; 5α-Pregnan-3α-ol-20-one; Neurosteroid binding site (Mehta, A.K. (805) 88)

Ethanol; Phosphorylation; Patch-clamp, dorsal root ganglion; Rat, RT-PCR; Potentiation (Zhai, J. (805) 116)

GABA receptor
Medial septum; Cholinergic neuron; Choline acetyltransferase (ChAT); Cell culture (Kenigsberg, R.L. (805) 123)

$GABA_A$ receptor
Seizure; Allopregnanolone; Pregnancy; α4 Subunit; PMS (Moran, M.H. (807) 84)

GABA receptor
Allopregnanolone; α4 Subunit; Antisense; Rat; PMS (Moran, M.H. (807) 91)

$GABA_B$ receptor
Supraoptic neuron; Baclofen; 2OH-saclofen; Extracellular recording (Ibrahim, N. (813) 88)

$GABA_A$ receptor
Receptor autoradiography; Paired-pulse inhibition; Cerebral ischemia; Photothrombosis; Postlesional reaction (Qü, M. (813) 374)

$GABA_B$ receptor antagonists
PTZ kindling; CGP compounds; $GABA_B$ binding; Learning; Memory retention (Getova, D. (809) 182)

$GABA_B$ receptor
Frequency potentiation; Synchronization; Non-NMDA type glutamate receptors; Disinhibition; CA3; El mouse (Fueta, Y. (792) 79)

$GABA_A$ subunit
$GABA_A$-BDZ receptor; EtOH sedation; Striatum; Locomotor activity; Benzodiazepine inverse agonist; *Xenopus oocyte* (June, H.L. (794) 103)

GABA transporter
GAD-65; GAD-67; Astrocyte; Enucleation; Neuroplasticity; Neuron-glia interaction (Yan, X.-X. (783) 63)

GABA uptake
Nipecotic acid; NNC-711; β-Alanine; Excitatory amino acid receptors (Do Nascimento, J.L.M. (798) 217)

GAD-65
GABA transporter; GAD-67; Astrocyte; Enucleation; Neuroplasticity; Neuron-glia interaction (Yan, X.-X. (783) 63)

GAD-67
GABA transporter; GAD-65; Astrocyte; Enucleation; Neuroplasticity; Neuron-glia interaction (Yan, X.-X. (783) 63)

GAD65
mPFC lesions; In situ hybridization histochemistry; Basal ganglia; D2; D1; Enkephalin; Substance P (Baca, S.M. (797) 55)

GAD
Interneuron; Drug addiction; Extended amygdala (Morales, M. (798) 333)

Gadolinium
Cadmium; Cadmium neurotoxicity; Brain angiotensin; Calcium channel; Losartan; Natriuresis; Kaliuresis (Luz, C.P. (796) 265)

GAERS
Low magnesium; Frontal cortex; Hippocampus; Entorhinal cortex; Paired pulse index (Armand, V. (803) 19)

β-Galactosidase
In situ PCR; Gene transfer; Rat brain; Polymerase chain reaction; *lac* Z gene; Herpes simplex virus; Digoxigenin (Yin, J. (783) 347)

Adenovirus; Gene therapy; Spinal cord; Motor neurons; Subarachnoid; MUG; Central nervous system (Mannes, A.J. (793) 1)

Galanin
Peptidergic innervation; Anterior pituitary; Monkey (Liu, S. (781) 114)

Autoradiography; Carbachol; Cholinergic system; Substantia innominata; Cerebral blood flow (Barbelivien, A. (789) 92)

Brain; Microdialysis; Dopamine; Acetylcholine; Nucleus accumbens; Feeding behavior; Neuropeptide Y; Paraventricular nucleus; Hypothalamus; Microinjection (Rada, P. (798) 1)

Glucose; Memory; K-ATP; Rat; Spontaneous alternation (Stefani, M.R. (813) 50)

Gallamine
AMPA; Nucleus basalis magnocellularis; Pirenzepine; Acetylcholine; Somatosensory cortex; Rat (Raevsky, V.V. (782) 324)

Dopamine neuron; Depolarization block; Chronic haloperidol; D-tubocurarine; Succinylcholine; Chloral hydrate (Melis, M. (783) 127)

γ-aminobutyric acid
Cerebral ischemia; Septo-hippocampal pathway (Gabriel, E.M. (785) 279)

γ-aminobutyric acid
Circadian rhythms; Suprachiasmatic nucleus; GABA; Baclofen; Rat; Brain-slice (Biggs, K.R. (807) 250)

γ-aminobutyric acid$_A$ receptor
Medial septum/diagonal band; Postnatal ethanol treatment; Fetal alcohol syndrome; Neuronal development; Patch-clamp electrophysiology (Hsiao, S.-H. (810) 100)

Gamma-aminobutyric acid (GABA)
Immunocytochemistry; Double labeling; Enucleation; Anuran (Gábriel, R. (782) 53)

Gamma irradiation
Brain injury; Astrocyte proliferation; Autoradiography; Immunocytochemistry; GFAP; S-100β protein; Developing rat (Setkowicz, Z. (803) 122)

Ganglion
LTP; Sympathetic; Adenosine; Receptor; Transport inhibitor (Hogan, Y.H. (807) 19)

Ganglion cell
Retina; GABA; Centrifugal fiber; Development; Lamprey (Anadón, R. (782) 297)

Amacrine cell; Cone photoreceptor; Outer segment; Horizontal cell; NMDA-R2A; NMDA-R2B; Calbindin; Parvalbumin; Immunocytochemistry; Colocalization with GABA (Goebel, D.J. (808) 141)

GAP-43
Cerebellum; GABA; Glutamate; Cerebellar culture; Granule cell; Northern hybridization; In situ hybridization; mRNA; Development (Console-Bram, L.M. (783) 316)

Human neocortex; Ischemia; Immunofluorescence; Confocal laser scanning microscopy (Akulinin, V.A. (784) 341)

Synaptophysin; Hippocampus; Aging; Physical training; Mouse (Chen, Y.C. (806) 238)

B-50 (GAP-43)
Casein kinase II; Protein kinase C; Protein phosphatase (Dokas, L.A. (781) 320)

Gap-junction
Dendro-dendritic connection; Motoneuron; CTB-tracing; Ultrastructure; Electrotonlc coupling (Van der Want, J.J.L. (779) 342)

Gas chromatography-selected ion monitoring method
Endogenous amine; Deprenyl; Monoamine oxidase; Parkinson's disease; Tetrahydroisoquinoline (Kotake, Y. (787) 341)

Gastrin-releasing peptide
Peptide exposure; Tolerance; BIM-26226; Rat; Brain (Plamondon, H. (782) 202)

Gastropod
Spaced training; Massed training; Associative learning; Classical conditioning; Appetitive stimulus; Aversive stimulus (Kojima, S. (808) 113)

Gating
Somatosensory; Human; Visual; Auditory (Staines, W.R. (801) 125)

GDNF
Neurotrophic factor; Parkinson's disease; Substantia nigra; Immunocytochemistry (Lapchak, P.A. (789) 9)

Promoter; Gene regulation; Transcription factor; Genomic structure (Woodbury, D. (803) 95)

Matrigel; Apoptosis; bFGF; IGF-I; Growth factors; Methamphetamine (Clarkson, E.D. (806) 60)

GDNFR-α; Peripheral neuropathies; Axonopathy; Cell infiltration (Yamamoto, M. (809) 175)

GDNFR-α
GDNF; Peripheral neuropathies; Axonopathy; Cell infiltration (Yamamoto, M. (809) 175)

GDNF receptor
Amyotrophic lateral sclerosis; RET; Spinal motoneuron; Immunocytochemistry (Duberley, R.M. (789) 351)

Gender
5-Hydroxytryptamine (5-HT, serotonin) antidepressant; Fenfluramine; Hypothalamus; Estrous (Gundlah, C. (785) 91)

Pregnancy; Estrogen; Progesterone; Analgesia (Dawson-Basoa, M. (794) 61)

$GABA_A$ receptor; Ethanol dependence; Neuroactive steroid; Ethanol withdrawal (Devaud, L.L. (796) 222)

Apolipoprotein E; β-amyloid; Entorhinal cortex; Frontal cortex; Age (Johnson, J.K. (798) 18)

Dopamine release; Kappa-opioid; NMDA; Cocaine; Ibogaine (Sershen, H. (801) 67)

Nicotine; Cocaine; Sex differences; Analgesia (Craft, R.M. (809) 137)

Gene
Hypoxia; Neuron; Death; Apoptosis; p53 (Banasiak, K.J. (797) 295)

Gene dosage
Glucose metabolism; Phosphofructokinase; Transgenic mouse; In vivo NMR (Peled-Kamar, M. (810) 138)

Gene expression
Calcitonin gene-related peptide; Sensory neuron; α_2-adrenergic receptor; Nerve growth factor (Supowit, S.C. (782) 184)

Wasting disorder; Failure to thrive; Feeding; Food deprivation; Ontogeny; Hypothalamus; 5-Hydroxytryptamine (Jahng, J.-W. (790) 67)

Gonadotropin-releasing hormone; Tyrosine hydroxylase; Nitric oxide; Hypothalamus (Wang, H. (792) 66)

Limbic seizure; Neuronal injury; In situ hybridization (Hashimoto, K. (804) 212)

Tissue culture; ELISA; Inflammation; Alzheimer's disease (Walker, D.G. (809) 31)

Hippocampus; Subiculum; Extracellular matrix; Plasticity; In situ hybridization (Hoffman, K.B. (812) 209)

Gene mapping
Corpus callosum; Mouse; *CCrSQTL*$_1$; *CCrSQTL*$_2$ (Le Roy, I. (811) 173)

General anesthesia
NO-synthase inhibitor; 7-Nitro indazole; NMDA synapse (Motzko, D. (788) 353)

Gene regulation
Lithium; Carbamazepine; G-protein (Jakobsen, S.N. (780) 46)

GDNF; Promoter; Transcription factor; Genomic structure (Woodbury, D. (803) 95)

Gene targeting
Blood pressure; Hypertension; Endothelin receptors; Baroreceptor reflex; Chemoreceptor reflex (Ling, G.-Y. (808) 238)

Gene therapy
Myelin basic protein; Transgenic mouse; *Shiverer*; Myelinogenesis; Central nervous system (Kimura, M. (785) 245)

Adenovirus; β-Galactosidase; Spinal cord; Motor neurons; Subarachnoid; MUG; Central nervous system (Mannes, A.J. (793) 1)

Parabrachial nucleus; Green fluorescent protein; Rat (Chamberlin, N.L. (793) 169)

Genetically epilepsy-prone rat
Superior colliculus; Noradrenergic transmission; α_1 agonist; α_1 antagonist; α_2 antagonist; Norepinephrine uptake blocker (Yan, Q.-S. (780) 199)

Genetic association
Paraoxonase 1 (PON1); Parkinson's disease (Kondo, I. (806) 271)

Genetics
Inbred rodents; Striatum; Amphetamine; Novelty (Brodkin, E.S. (805) 55)

B6 mice; D2 mice; Seizure; Epilepsy; Electroconvulsive shock; Quantitative trait loci (Ferraro, T.N. (813) 207)

Genetic selection
Benzodiazepine receptor; Methyl β-carboline-3-carboxylate; Convulsion; Mouse; Behavioral neurogenetics (Chapouthier, G. (787) 85)

Genetic variability
Tolerance; Morphine; Withdrawal; Sprague–Dawley; Wistar–Kyoto; Spontaneously hypertensive (Hoffmann, O. (806) 232)

Gene transfer
Plasmid DNA–cationic liposome complex; Continuous injection; Adult mammalian CNS (Imaoka, T. (780) 119)

In situ PCR; β-Galactosidase; Rat brain; Polymerase chain reaction; *lac* Z gene; Herpes simplex virus; Digoxigenin (Yin, J. (783) 347)

Geniculate
Tectum; Superior colliculus; Tectoreticular; Reticular formation; Lamprey (Zompa, I.C. (802) 27)

Geniculate nucleus
Lithium; Methamphetamine; Reverse tolerance; Ambulatory; Activity; c-Fos protein; Striatum (Namima, M. (782) 83)

Geniculohypothalamic tract
Suprachiasmatic nucleus; Circadian rhythm; Immediate early gene; *N*-methyl-D-aspartate receptor (Edelstein, K. (810) 264)

Genistein
Parkinson's disease; 6-hydroxydopamine lesion; Basal ganglia; NMDA antagonist; Motor response alteration (Oh, J.D. (813) 150)

Genitourinary
Parasympathetic; Spinal cord; c-*fos*; Immediate early gene; Bladder (Grill, W.M. (796) 150)

Genomic structure
GDNF; Promoter; Gene regulation; Transcription factor (Woodbury, D. (803) 95)

Genotype
Behavior; Caudate nucleus; Cingulate cortex; Cocaine; Nucleus accumbens (Baumann, M.H. (804) 316)

Gerbil
FK506; FK506 binding protein; Calcineurin; Cerebral ischemia; Cerebral blood flow (Nozaki, H. (781) 1)

Neuroprotection; Hypoxia; Hippocampal slice; Ischemic tolerance (Tokunaga, H. (784) 316)

Anoxic depolarization; Ca^{2+}; Cerebral ischemia; Hippocampus; Procaine (Chen, J. (792) 16)

Hypothermia; Delayed neuronal death; Forebrain ischemia; DNA fragmentation (Niwa, M. (794) 338)

PNU-101017; Diazepam; Benzodiazepine receptor; Ischemia; Hippocampal CA_1 neuron (Hall, E.D. (798) 325)

Cerebral ischemia; Postischemic hypothermia; Learning; CA1; Habituation; Working memory (Colbourne, F. (803) 69)

Delayed neuronal death; DNA fragmentation; Forebrain ischemia; Apical dendrite (Hara, A. (806) 274)

Middle-latency auditory evoked potential; Auditory cortex; Transient cerebral ischemia; Neuronal death (Ichiki, H. (806) 278)

GFAP
3-NPA; Glia; bFGF; Thrombin (Deshpande, S.B. (783) 28)

CNP; MBP; Spinal cord injury (Morin-Richaud, C. (783) 85)

Brain lesion; Bergmann-glia; Reactive gliosis; Astroglia (Ajtai, B.M. (802) 285)

Brain injury; Gamma irradiation; Astrocyte proliferation; Autoradiography; Immunocytochemistry; S-100β protein; Developing rat (Setkowicz, Z. (803) 122)

Development and regeneration; Glia and other non-neuronal cell; Enteric glia; Chick; Gut (Balaskas, C. (804) 275)

Scrapie; Astrocyte; PrP; Hamster (Ye, X. (809) 277)

GFAP amino acid sequence
Amyotrophic lateral sclerosis (ALS); Glial fibrillary acidic protein (GFAP); GFAP immunohistochemistry; Motor neuron degeneration (*Mnd*) mutant mouse; Spinal cord; Polyacrylamide gel electrophoresis (PAGE) (Fujita, K. (785) 31)

GFAP immunohistochemistry
Amyotrophic lateral sclerosis (ALS); Glial fibrillary acidic protein (GFAP); GFAP amino acid sequence; Motor neuron degeneration (*Mnd*) mutant mouse; Spinal cord; Polyacrylamide gel electrophoresis (PAGE) (Fujita, K. (785) 31)

GH3 cell
MPP^+; Cell death; Neurotrophic factor (Yoshinaga, N. (794) 137)

CGRP; GH secretagogue; Somatotroph; Pituitary adenoma (Nakamura, Y. (807) 203)

Nonselective current; Voltage-dependent Ca^{2+} current (Wu, S.-N. (812) 133)

GH secretagogue
CGRP; Somatotroph; Pituitary adenoma; GH_3 cell (Nakamura, Y. (807) 203)

γ-hydroxybutyrate
Ethanol withdrawal; Acetylcholine release; Microdialysis; Diazepam (Imperato, A. (784) 347)

Ginseng
Ginsenoside; Analgesia; Pain modality (Mogil, J.S. (792) 218)

Ginsenoside
Ginseng; Analgesia; Pain modality (Mogil, J.S. (792) 218)

Glaucoma
c-*fos*; Hypertensive eye; MK-801; NMDA receptor (Chaudhary, P. (792) 154)

Glia
Imidazoline receptor; Behavior; Antihypertensive drug; Neuron; Rat; Immunocytochemistry (Ruggiero, D.A. (780) 270)

3-NPA; bFGF; Thrombin; GFAP (Deshpande, S.B. (783) 28)

Microglia; Astrocyte; Cytokine; Interleukin-12; Helper T cell (Suzumura, A. (787) 139)

Iron; Oxidative damage (Robb, S.J. (788) 125)

Chondroitin sulfate; Proteoglycan; Neurocan; Rat brain; Perineuronal net (Matsui, F. (790) 45)

Toxoplasma gondii; *Trypomosama cruzi*; Toxoplasmosis; Connexin; Cx43; Cx26; Dye coupling (Campos de Carvalho, A.C. (790) 304)

Integrin; Synapse; Dendrite; Brain; Distribution (Nishimura, S.L. (791) 271)

Na^+ pump; Neurons; Ouabain (Monteith, G.R. (795) 325)

Glucose transporter; Brain; Microvessel; Immunohistochemistry; Immunoelectron microscopy (Yu, S. (797) 65)

cPLA2; Muscarinic receptor; Signal transduction; Arachidonic acid; Oligodendrocyte (Lautens, L.L. (809) 18)

Potassium buffering; Postnatal neuronal cell culture; Nerve growth factor; Depolarization (Abiru, Y. (809) 115)

Cyclic nucleotide; Opioid; Hypoxia (Armstead, W.M. (813) 398)

Glia and other non-neuronal cell
Development and regeneration; GFAP; Enteric glia; Chick; Gut (Balaskas, C. (804) 275)

Glial cell
Growth inhibitory factor; Metallothionein-III; 4-Methylcatechol; Dopamine; Levodopa (Aoki, C. (792) 335)

Mitogenic activity; Neurofibromatosis type I (Caronti, B. (793) 21)

Glial development
Immunocytochemistry; Human fetal brain; CD68; EBM-11; CD34; RCA-1; Lectins (Andjelkovic, A.V. (814) 13)

Glial fibrillary acidic protein
c-Fos; Potassium; Brain injury; Immunohistochemistry (Herrera, D.G. (784) 71)

Amyotrophic lateral sclerosis (ALS); GFAP immunohistochemistry; GFAP amino acid sequence; Motor neuron degeneration (*Mnd*) mutant mouse; Spinal cord; Polyacrylamide gel electrophoresis (PAGE) (Fujita, K. (785) 31)

Chemoreceptor; Oxygen; Patch clamp; Potassium channel; Tyrosine hydroxylase (Chou, C.-L. (789) 229)

Methamphetamine; Dopamine; Serotonin; Neurotoxicity; Hyperthermia; Rat; Tyrosine hydroxylase; Western blot (Fukumura, M. (806) 1)

Astrocyte; Microglia; Sciatic nerve axotomy (Gilmore, S.A. (806) 113)

Ototoxicity; Cytochrome oxidase; Brainstem (Rosen, J.H. (813) 177)

Glial reaction
Excitotoxicity; Neurodegeneration; Calcium deposits; Hydroxyapatite; Calcium binding proteins (Herrmann, G. (786) 205)

Glial-released protein
Sprouting; S100B; Neurotropic factor; Axon growth; Astrogliosis; Hippocampus (McAdory, B.S. (813) 211)

Glial scar
Excitotoxicity; Phospholipase A_2; Cyclooxygenase-2; Arachidonic acid; Reactive astrocyte; Hippocampus (Sandhya, T.L. (788) 223)

Excitotoxicity; Heparan sulphate proteoglycan; Perlecan; Reactive astrocyte; Amyloid plaque (Shee, W.L. (799) 292)

Glia / neuronal interaction
Brain injury; Swelling; Synaptic plasticity; Sprouting (D'Ambrosio, R. (786) 64)

Glibenclamide
Iberiotoxin; Neuronal nitric oxide synthase; 7-Nitroindazole (Wang, Q. (793) 187)

Gliosis
Astrocyte; Cell culture; Neuroglia; Cytokine; CNTF (Levison, S.W. (803) 189)

Kindling; Hippocampus; Hilus; Seizure; Plasticity; Dentate gyrus (Adams, B. (804) 331)

Global cerebral ischemia
Vascular anatomy; Ischemic brain injury; Mice (Murakami, K. (780) 304)

Globus pallidus
Subthalamic nucleus; Haloperidol; Circling; MK-801 (Miwa, H. (781) 268)

Basal ganglia; Striatum; Quinolinic acid; Lesion; Water maze; Huntington's disease; Rat (Joel, D. (787) 143)

Auditory cortex; Caudate–putamen; Cholinergic; EEG; Receptive field; Response suppression (Chernyshev, B.V. (793) 79)

Risperidone; Striatum; Dopamine; Serotonin; GABA (Grimm, J.W. (801) 182)

Dopamine; Parkinson's disease; Subthalamic nucleus (Olds, M.E. (812) 50)

Caudate–putamen; Nociception; Thermal stimulation; Electrophysiology; Rat (Chudler, E.H. (812) 283)

Globus pallidus internalis
Monkey; Intracerebral injections; Bicuculline; Muscimol; Substantia nigra pars reticulata (Burbaud, P. (780) 102)

Glomerulus
Insect olfactory system; Activity mapping; Odor representation; Autoradiography (Distler, P.G. (805) 263)

Olfactory bulb; Mitral cell; Morphometry; Rabbit; Rat (Royet, J.-P. (788) 35)

Glomus cell
4-AP; $[Ca^{2+}]_i$; K^+–O_2 current; Low $[Ca^{2+}]_o$ plus high $[Mg^{2+}]_o$; Membrane potential; Neurosecretion; TEA (Lahiri, S. (794) 162)

Carotid body; Intracellular sodium; Voltage clamp; Hypoxia; Cobalt; Barium; TTX (Jiang, R.-G. (797) 197)

Hypoxia; Neuropeptide Y; Tyrosine hydroxylase; Immunohistochemistry; Electron microscopy (Kameda, Y. (805) 191)

Carotid body; Intercellular coupling; Hypoxia; Acidity; cAMP; Voltage clamping; Microelectrodes (Abudara, V. (792) 114)

Glossopharyngeal nerve
Vomiting; Swallowing; Upper airway; Larynx; Pharynx; Superior laryngeal nerve; Hypoglossal nerve (Umezaki, T. (781) 25)

GLP-1
Nucleus of the solitary tract; Pontine parabrachial nucleus; Area postrema; Emetic drug; Satiety; Anorexia (Thiele, T.E. (801) 164)

Glucagon
VIP; 2DG; Glucose; Insulin; Antagonist (Chun, S.-J. (809) 165)

Glucagon-like peptide-1 (GLP-1)
Fragment; Central; Feeding behavior; Chicken (Furuse, M. (807) 214)

Glucocorticoid
Synaptic plasticity; Stress; Memory; Hippocampus; Long-term potentiation; Corticosterone (Bramham, C.R. (789) 245)

Thyrotropin releasing hormone; c-*fos*; c-*jun*; Hypothalamic neuron (Luo, L.-G. (791) 56)

Superoxide dismutase; Catalase; Glutathione peroxidase; Kainic acid; Hippocampus; Cortex; Liver (McIntosh, L.J. (791) 209)

Superoxide dismutase; Catalase; Glutathione peroxidase; Kainic acid; Hippocampus (McIntosh, L.J. (791) 215)

Interleukin; Tumor necrosis factor; Leptin; Neuropeptide Y; Opioid; Corticotropin; Endotoxin; Nervous system; Cerebellum; Hippocampus; Hypothalamus; Feeding; Food intake; RNase protection; Competitive RT–PCR (Gayle, D. (795) 77)

Adenylyl cyclase; β-Adrenergic receptor; Aging; Cerebellum; Dexamethasone (Slotkin, T.A. (800) 236)

Adrenalectomy; Alzheimer's disease; Amyloid protein precursor; Hippocampus; Vascular cell (Islam, A. (806) 108)

Stress; Striatum; gp120; HIV; AIDS-related dementia; Calcium; Neuron death (Iyer, A.M. (808) 305)

Neurotrophin; Corticosteroid; Stress (Schaaf, M.J.M. (813) 112)

Glucocorticoid receptor
Stress; Pig; Limbic area (Kanitz, E. (804) 311)

Glucocorticoid receptors
Photoperiod; Stress response; Hippocampus; Cortisol; Corticosterone; Hamster (Ronchi, E. (780) 348)

Glucocorticosteroid receptor
Corticosteroid; Hippocampus; Facilitation; Learning and memory; Rat (Oitzl, M.S. (797) 159)

Glucoprivation
2-deoxy-D-glucose; Feeding; MOR-1 clone; KOR-1 clone; DOR-1 clone; KOR-3/ORL-1 clone (Burdick, K. (794) 359)

2-Deoxy-D-glucose; Catecholamine neurons; Adrenal medulla; c-*fos*; Rat; Epinephrine; Norepinephrine (Ritter, S. (805) 41)

Glucoprivic feeding
Area postrema; Sympathoadrenomedullary; Hypothalamic-pituitary-adrenal axis; 2-deoxy-D-glucose; Corticosterone (Edmonds, B.K. (801) 21)

Glucose
Feeding; Amygdala; Acetylcholine; Microdialysis; Hypoglycemia; Insulin; Rat (Hajnal, A. (785) 41)

Guinea pig; Hippocampal slice; Population spike; High energy phosphate; Lactate; Mannose; Fructose (Wada, H. (788) 144)

Wernicke–Korsakoff syndrome; Thiamin deficiency; Hippocampus; Magnetic resonance imaging (Jordan, L.R. (791) 347)

Acetyl-L-carnitine; Brain; Glycogen; ^{13}C NMR spectroscopy; Stable isotope (Aureli, T. (796) 75)

Insulin; *db / db* mouse; Cerebellum; Granule cell; Exercise (Vannucci, S.J. (797) 1)

VIP; 2DG; Glucagon; Insulin; Antagonist (Chun, S.-J. (809) 165)

Memory; Galanin; K-ATP; Rat; Spontaneous alternation (Stefani, M.R. (813) 50)

Glucose metabolism
Gene dosage; Phosphofructokinase; Transgenic mouse; In vivo NMR (Peled-Kamar, M. (810) 138)

Glucose-responsive
Sulfonylurea; Neuropeptide Y; Dopamine; Norepinephrine; GABA; Ventromedial nucleus; Paraventricular nucleus; Arcuate nucleus (Dunn-Meynell, A.A. (814) 41)

Glucose transporter
Brain; Glia; Microvessel; Immunohistochemistry; Immunoelectron microscopy (Yu, S. (797) 65)

Glutamate
AMPA; Cerebellar granule cell; Rat; Metabolic inhibition; Neurotoxicity; Cyanide, NaCN; DNA fragmentation; $[Ca^{2+}]_i$ (Cebers, G. (779) 194)

Kainate; AMPA; Receptor; DBA mice; C57 mice; Seizure; Epilepsy (Kürschner, V.C. (780) 1)

Central chemoreceptor; Respiration; GABA; Calcineurin; cAMP (Miura, M. (780) 34)

REM sleep; Atonia; Nucleus magnocellularis of medulla; Nucleus paramedianus of medulla; Pontine inhibitory area; In vivo microdialysis (Kodama, T. (780) 178)

Basal ganglia; Metabotropic; Excitatory amino acid; Phosphoinositide (Tallaksen-Greene, S.J. (780) 210)

L-Arginine; Cultured neuron; Nitric oxide; MK-801; Ketamine (Yamauchi, M. (780) 253)

Cell culture; Zinc; Calcium; Neurotoxicity; Timm's staining; Cobalt; Co^{2+} (Yin, H.Z. (781) 45)

Cerebral ischemia; MK-801; NMDA; Stroke (Werth, J.L. (782) 248)

Cerebral ischemia; Protein kinase C; Aspartate; Taurine; GABA (Nakane, H. (782) 290)

Brain injury; Sensorimotor cortex; Sensitive period; Use-dependency; Recovery of function; Neuroplasticity; Rehabilitation (Humm, J.L. (783) 286)

GAP-43; Cerebellum; GABA; Cerebellar culture; Granule cell; Northern hybridization; In situ hybridization; mRNA; Development (Console-Bram, L.M. (783) 316)

Parvalbumin; Immunohistochemistry; Birds; Tectum; Nucleus rotundus; Nucleus triangularis; Ectostriatum; Heterogeneity; Dorsoventral gradient (Theiss, C. (785) 114)

Newt; Retina; Regeneration; Immunohistochemistry (Chiba, C. (785) 171)

Aspartate; Formalin test; Periphery; Pain; Inflammation (Omote, K. (787) 161)

Anticonvulsant; Epileptogenesis; 2*R*,4*R*-APDC; Group II metabotropic glutamate receptor; Kindling (Attwell, P.J.E. (787) 286)

Accumbens; Amphetamine; Dialysis (Dalia, A. (788) 111)

Competitive antagonism; Excitatory amino acid; Vasopressin; Neurosecretion; Coagonist hypothesis (Currás, M.C. (789) 181)

Excitatory amino acid; Periaqueductal grey; Electron microscopy; Immunocytochemistry (Azkue, J.J. (790) 74)

Neurotoxicity; Nitric oxide; Cell respiration; Mitochondria; Glutathione (Almeida, A. (790) 209)

Calpain; Receptor; Plasticity; Calcium; Hippocampus (Bi, X. (790) 245)

Oxygen toxicity; NMDA receptor; Nitric oxide synthase; AMPA receptor (Chavko, M. (791) 75)

Hyperglycemia; Cerebral ischemia; Reperfusion; Nitric oxide; NOS inhibitor; Hydroxyl radical; Magnetic resonance imaging; Superparamagnetic iron oxide (Wei, J. (791) 146)

Ventral Pallidum; Amygdala; Nucleus accumbens; Opioid; DAMGO; Tachykinin; Substance P; Excitatory amino acid; Neuromodulation (Mitrovic, I. (792) 193)

Perilymph; Continuous monitoring; Ca^{2+}-dependency; Microdialysis (Matsuda, K. (794) 343)

Heatstroke; NMDA receptor antagonist; Cerebral blood flow (Yang, Y.-L. (795) 121)

Excitatory transmission; Protease; Neuropeptide (Luthi-Carter, R. (795) 341)

Neuronal excitability; Epilepsy; Intracellular pH; GABA; HEPES; Hippocampal slice (Bonnet, U. (796) 161)

Axonal conduction; Fiber volley; Presynaptic; Pre-terminal; TTX (Mikulec, A.A. (796) 231)

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Suprachiasmatic nucleus; Circadian rhythm; Nitric oxide synthase; Biological clock (Ferreyra, G.A. (797) 190)

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Aspartate; Microdialysis; cGMP; cAMP; Protein kinase; Pain; Dorsal horn; Hyperalgesia (Sluka, K.A. (798) 281)

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Glutamate receptor activation
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Glutaric acid
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Glycine receptor
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Gold thioglucose
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α_1-adrenoreceptor; Transglutaminase; Apoptosis; Neuroepithelium (Gill, L.S. (788) 95)

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$5\text{-}HT_{1B}$ receptor; Up-regulation; Reinnervation; Quantitative autoradiography; Suprachiasmatic nucleus; Rat (Manrique, C. (788) 332)

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Granule cell
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Green fluorescence protein
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Green fluorescent protein
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Guanabenz
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GYKI 52466
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H

Hig
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(+)-HA-966
Prepulse inhibition; Phencyclidine; Apomorphine; Haloperidol; Spontaneous locomotor activity (Furuya, Y. (781) 227)

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Prepulse inhibition; (+)-HA-966; Phencyclidine; Apomorphine; Spontaneous locomotor activity (Furuya, Y. (781) 227)

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Haloperidol tetrahydropyridine
Schizophrenia; Parkinsonism; Haloperidol pyridinium; Reduced haloperidol pyridinium (Wright, A.M. (788) 215)

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[^{3}H]DADLE
[^{3}H]DAMGO; [^{3}H]U69,593; Opioidergic system; Infarct extension; Penumbra (Boutin, H. (787) 237)

[^{3}H]DAMGO
[^{3}H]DADLE; [^{3}H]U69,593; Opioidergic system; Infarct extension; Penumbra (Boutin, H. (787) 237)

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Heat shock cognate protein 70 (HSC70)
Heat shock; Cyclic AMP (cAMP); Heat shock protein 72 (HSP72); Quercetin; N18TG2 cells (Zensho, H. (790) 278)

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Heme oxygenase
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Hepatocyte growth factor activator
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[^{3}H]spiperone binding; Serotonin receptor, 5-HT_1 and 5-HT_2 receptor; Coated vesicle; Bovine brain (Moroi, K. (794) 291)

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Rapid Eye Movement sleep; Deprivation; Recovery; Ambient Temperature (Amici, R. (781) 252)

Blood–brain barrier; Cerebrospinal fluid; Choroid plexus; Developing brain; Iron; Transferrin receptor (Moos, T. (790) 115)

DL-homocysteic acid
Respiratory control; Rabbit; Parabrachial nuclear complex; Apneusis (Mutolo, D. (807) 182)

Homonymous afferent feedback
Human; Soleus; H-reflex; Passive movement; Ankle joint (Voigt, M. (783) 332)

Hookworm-derived recombinant neutrophil inhibitory factor
Cerebral ischemia; Neutrophil; CD11b/CD18 integrin; Neuronal damage; Rat (Jiang, N. (788) 25)

Horizontal cell
Amacrine cell; Ganglion cell; Cone photoreceptor; Outer segment; NMDA-R2A; NMDA-R2B; Calbindin; Parvalbumin; Immunocytochemistry; Colocalization with GABA (Goebel, D.J. (808) 141)

Amacrine cell; Müller glia; Immunohistochemistry; Teleost (Ekström, P. (812) 179)

Cone pedicles; Synaptic plasticity; Cytochalasin D; Nucleolus-like body; Teleosts retina; Light- and dark-adaptation; Cytoskeleton (De Juan, J. (792) 173)

Hormone
Lordosis behavior; Female rat; Serotonin; 8-OH-DPAT (Jackson, A. (796) 299)

2-Deoxy-D-glucose; Mercaptoacetate; Neuropeptide Y; Immunohistochemistry; In situ hybridization (Wang, J. (804) 7)

Hormone action
Aging; Thyroid hormone; Hyperthyroidism; Hypothyroidism; Cerebral response (Mooradian, A.D. (793) 302)

Horseradish peroxidase
Trigeminal system; Somatotopic organization; Nitric oxide; Nerve injury; Trans-synaptic regulation; Transganglionic transport (Takemura, M. (781) 78)

Hotplate
Pain; Writhing; Serotonin; 5-HT_4; 5-HT_3; Mouse (Espejo, E.F. (788) 20)

HPA axis
Corticosteroid receptor mRNA; Adrenal gland; In situ hybridization; Cortisol; Corticosterone (Lance, S.J. (780) 342)

Opioid receptors; Morphine; Lymphocytes; Nociception; Rat; Neuroimmunology (Mellon, R.D. (789) 56)

[^{3}H]PD 128907
D_3 dopamine receptor; Rat; Mouse; Guinea pig; Rabbit; Dog; Human (Levant, B. (800) 269)

[^{3}H]PK11195 binding
Spermine; Neurotoxicity; Spatial learning; Retention; Diazepam (Conway, E.L. (800) 10)

HPLC
Superior cervical ganglion; Cochlea; Norepinephrine; Dopamine; Rat (Gil-Loyzaga, P. (779) 53)

Brain; Rat; Hydrocephalus; Dopamine; Taurine; Cerebrospinal fluid shunt (Del Bigio, M.R. (798) 119)

PYY; Acetylcholine; Microdialysis; Feeding behavior; Hyperphagia (Hagan, M.M. (805) 20)

Olfactory receptor neurons; Dopamine; Norepinephrine; L-Dopa; DOPAC (Lucero, M.T. (807) 234)

β-adrenergic receptor; In vivo microdialysis; Memory modulation; Stress (Quirarte, G.L. (808) 134)

H_1 receptor
Feeding behavior; Histamine; H_2 receptor; H_3 receptor; Intracereboventricular infusion; Urine excretion; Water intake (Lecklin, A. (793) 279)

H_2 receptor
Feeding behavior; Histamine; H_1 receptor; H_3 receptor; Intracereboventricular infusion; Urine excretion; Water intake (Lecklin, A. (793) 279)

H_3 receptor
Feeding behavior; Histamine; H_1 receptor; H_2 receptor; Intracereboventricular infusion; Urine excretion; Water intake (Lecklin, A. (793) 279)

H-reflex
Monosynaptic reflex; F-Wave; Anaesthetised obex-transected rat (Gozariu, M. (782) 343)

Human; Soleus; Passive movement; Ankle joint; Homonymous afferent feedback (Voigt, M. (783) 332)

Posture; Ankle dorsiflexion; Reciprocal inhibition; Man (Kasai, T. (792) 159)

HRP
Masseteric motoneuron; Trigeminal motor nucleus; IPSP; EPSP; Dendritic arbor; Cat (Kamogawa, H. (785) 18)

HS014
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hsp70
c-*fos*; Brain slices; Apoptosis; NMDA; Translation; Transcription; Neonate; Stress proteins; Immediate early genes (Hasegawa, K. (785) 262)

HSP72
Limbic seizure; Lithium–pilocarpine; Fos protein; Stress response; Neuronal damage; 2-Deoxyglucose (Motte, J. (793) 61)

Methamphetamine; Peripheral-type benzodiazepine receptor; Adenosine transporter (Escubedo, E. (814) 120)

[^{3}H]spiperone binding
[^{3}H]5-hydroxytryptamine binding; Serotonin receptor, 5-HT_1 and 5-HT_2 receptor; Coated vesicle; Bovine brain (Moroi, K. (794) 291)

[^{3}H]sumatriptan
5-HT_{1B} receptor; Huntington's disease; Parkinson's disease; Progressive supranuclear palsy; Striatonigral degeneration (Castro, M.E. (790) 323)

5-HT
Learned helplessness; Inescapable shock; Dorsal raphe nucleus; 5-HIAA; In vivo microdialysis (Maswood, S. (783) 115)

NMDA; Raphe; Frontal cortex; WAY-100635; Intracerebral dialysis (Pallotta, M. (783) 173)

5-HT_3
Pain; Hotplate; Writhing; Serotonin; 5-HT_4; Mouse (Espejo, E.F. (788) 20)

5-HT_4
Pain; Hotplate; Writhing; Serotonin; 5-HT_3; Mouse (Espejo, E.F. (788) 20)

5-HT
Learned helplessness; Inescapable shock; Stressor controllability; 5-HIAA; In vivo microdialysis; Hippocampus; Periaqueductal gray (Amat, J. (797) 12)

5-HT_{2A}
Serotonin; Receptor; Spinal cord; DRG; Immunohistochemistry (Maeshima, T. (797) 118)

5-HT
Learned helplessness; Inescapable shock; Stressor controllability; 5-HIAA; In vivo microdialysis; Amygdala (Amat, J. (812) 113)

5-HT1A
Calcitonin; Hippocampus; Frontal cortex; Binding; Corticoid; Adrenalectomy (Boujrad, F. (812) 279)

5-HT_2 antagonist
EEG; High-voltage spindle; Age; Rat (Moyanova, S. (786) 55)

^{3}H-thymidine autoradiography
Macrophage recruitment; BSI-B4 isolectin histochemistry; Astrocyte; Proliferation; Developing rat brain (Janeczko, K. (812) 172)

5-HT-moduline
Serotonergic system; β-imager; 5-HT_{1B} receptor; Autoradiography (Cloëz-Tayarani, I. (798) 311)

5-HT_{2A} receptor
LTP; M100907; Antipsychotic drug; NMDA receptor (Wang, R.Y. (779) 309)

5HT_{1A} receptor
LY206130; Fluoxetine; Pindolol; Feeding (Li, D.L. (781) 121)

5-HT$_1$ receptor
Visual system; *Rana pipiens*; 5-HT$_2$ receptor; Visual plasticity; Topographic map formation (Malayev, A.A. (781) 167)

5-HT$_2$ receptor
Visual system; *Rana pipiens*; 5-HT$_1$ receptor; Visual plasticity; Topographic map formation (Malayev, A.A. (781) 167)

5-HT$_7$ receptor
Adenylyl cyclase; Astrocyte; Cyclic AMP; Desensitization; 5-Hydroxytryptamine; Frontal cortex; Neuron (Shimizu, M. (784) 57)

5-HT$_{1A}$ receptor
Methylazoxymethanol; Microencephaly; 5-HT$_{2A}$ receptor; Antidepressant; Wet-dog shake (Watanabe, M. (787) 333)

5-HT$_{2A}$ receptor
Methylazoxymethanol; Microencephaly; 5-HT$_{1A}$ receptor; Antidepressant; Wet-dog shake (Watanabe, M. (787) 333)

5-HT$_{1B}$ receptor
Up-regulation; Reinnervation; Graft; Quantitative autoradiography; Suprachiasmatic nucleus; Rat (Manrique, C. (788) 332)

Huntington's disease; Parkinson's disease; Progressive supranuclear palsy; Striatonigral degeneration; [^{3}H]sumatriptan (Castro, M.E. (790) 323)

5-HT receptor
Plasticity; NPY; 5-7-DHT; *p*-Chlorophenylalanine; Cortex; Rat (Compan, V. (795) 264)

5-HT$_1$ receptor
DA–5-HT interaction; Substantia nigra; Microdialysis; 5-HT$_2$ receptor; 5-HT$_4$ receptor (Thorré, K. (796) 117)

5-HT$_2$ receptor
DA–5-HT interaction; Substantia nigra; Microdialysis; 5-HT$_1$ receptor; 5-HT$_4$ receptor (Thorré, K. (796) 117)

5-HT$_4$ receptor
DA–5-HT interaction; Substantia nigra; Microdialysis; 5-HT$_1$ receptor; 5-HT$_2$ receptor (Thorré, K. (796) 117)

5-HT$_2$ receptor
High-pressure neurological syndrome; Accumbens; Dopamine; Serotonin; Voltammetry (Kriem, B. (796) 143)

5-HT$_{1B}$ receptor
Serotonergic system; β-imager; 5-HT-moduline; Autoradiography (Cloëz-Tayarani, I. (798) 311)

5-HT$_3$ receptor
ACh release; Ondansetron; Potassium channel blocker; GABA$_A$ receptor; Entorhinal cortex (Díez-Ariza, M. (801) 228)

5-HT$_{1A}$ receptor
5-HT$_{2A/2C}$ receptor; 5-HT$_3$ receptor; Lordosis behavior; Ventromedial nucleus; Ovariectomized rat (Maswood, N. (802) 98)

5-HT$_{2A/2C}$ receptor
5-HT$_{1A}$ receptor; 5-HT$_3$ receptor; Lordosis behavior; Ventromedial nucleus; Ovariectomized rat (Maswood, N. (802) 98)

5-HT$_3$ receptor
5-HT$_{1A}$ receptor; 5-HT$_{2A/2C}$ receptor; Lordosis behavior; Ventromedial nucleus; Ovariectomized rat (Maswood, N. (802) 98)

5HT$_2$ receptor
7-Nitroindazole; L-NAME; Nitric oxide (Xu, X. (804) 337)

5-HT$_{1A}$ receptor
Absence epilepsy; WAG/RIJ rat; Serotonin; 8-hydrox-2-(di-*n*-propylamin)-tetralin (8-OH-DPAT); Spike-wave discharge (Gerber, K. (807) 243)

Arterial blood pressure; Heart rate; Intracerebroventricular; α-Adrenoceptor; H$_2$-histamine receptor; Imidazoline receptor (Ally, A. (810) 153)

5-HT receptor agonist
Sexual behavior; Female; Proestrous (Wolf, A. (804) 206)

5-HT$_3$ receptors
Descending modulation; Intrathecal administration; Micturition; Pudendal nerve; Segmental reflex (Espey, M.J. (798) 101)

[^{3}H]U69,593
[^{3}H]DAMGO; [^{3}H]DADLE; Opioidergic system; Infarct extension; Penumbra (Boutin, H. (787) 237)

Human
Stretch; Muscle spindle; Presynaptic inhibition; Spinal cord (Cheng, J. (779) 280)

Soleus; H-reflex; Passive movement; Ankle joint; Homonymous afferent feedback (Voigt, M. (783) 332)

Dorsal column nucleus; Somatosensory; Substance P receptor; NK-1 receptor (Schwark, H.D. (786) 259)

Apparent motion; Motion perception; Reaction time; Visual system (Kaneoke, Y. (790) 195)

Hypothalamus; Preoptic area; Rhesus monkey; Sex difference; Cytoarchitecture (Byne, W. (793) 346)

Semitendinosus; Rectus femoris; Ipsilateral; Contralateral (Misiaszek, J.E. (795) 25)

D$_3$ dopamine receptor; [^{3}H]PD 128907; Rat; Mouse; Guinea pig; Rabbit; Dog (Levant, B. (800) 269)

Somatosensory; Gating; Visual; Auditory (Staines, W.R. (801) 125)

Thyroxine; Triiodothyronine; Deiodinase; Brain; Tumor (Calvo, R.M. (801) 150)

Opioid; Prodynorphin gene; Promoter; Transcription (Telkov, M. (804) 284)

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Choline acetyltransferase; In situ hybridization; Brain (Kasashima, S. (806) 8)

Skin; Directional sensibility (Olausson, H. (808) 120)

C fiber; Neural control of skin blood flow; Pressure strain; Laser Doppler (Fromy, B. (811) 166)

Nitric oxide; Astrocyte; Cytokine; Adult; Culture (Zhao, M.-L. (813) 402)

Human brain
D$_3$ dopamine receptor; mRNA; In situ hybridization (Suzuki, M. (779) 58)

Variant form; Very low density lipoprotein receptor; Myelin; apoE; β-amyloid (Nakamura, Y. (793) 47)

Autoradiography; Inositol 1,4,5-trisphosphate; Inositol 1,3,4,5-tetrakisphosphate; Protein kinase C; Phorbol 12,13-dibutyrate; Alzheimer's disease; Neurofibrillary tangles; Staging; Hippocampus (Kurumatani, T. (796) 209)

Nicotinic acetylcholine receptor; Subtype; Regional distribution; [^{3}H]epibatidine; [^{3}H]nicotine; Aging (Marutle, A. (801) 143)

Human fetal brain
Glial development; Immunocytochemistry; CD68; EBM-11; CD34; RCA-1; Lectins (Andjelkovic, A.V. (814) 13)

Human GABA$_A$ receptor
Temperature; Zolpidem (Munakata, M. (807) 199)

Human gait
Cutaneous reflexes; Sural nerve; Cortical facilitation; Magnetic stimulation; Tibialis anterior; Biceps femoris (Pijnappels, M. (787) 149)

Human hippocampus
Glutamate receptor; Epilepsy; Hippocampal sclerosis; Synaptic reorganization; Mossy fiber sprouting (Ying, Z. (798) 239)

Human hypothalamus
Obesity; Appetite regulation; Y1 receptor; Y2 receptor; Y5 receptor; mRNA Analysis; Radioligand binding (Statnick, M.A. (810) 16)

Human influenza virus
Second trimester of pregnancy; Mice; Hippocampus; SNAP-25; Schizophrenia; Autism (Fatemi, S.H. (800) 1)

Human melanin-concentrating hormone
pMCH; *pMCHL*; Antisense RNA expression (Miller, C.L. (803) 86)

Human neocortex
GAP-43; Ischemia; Immunofluorescence; Confocal laser scanning microscopy (Akulinin, V.A. (784) 341)

Human neuroblastoma cell line SH-SY5Y
Alzheimer's disease; Temporal cortex; Hippocampus; Bcl-2 family; Caspase family (Kitamura, Y. (780) 260)

Human pupil
Muscarinic acetylcholine receptor; Receptor subtype; Light reflex; Iris sphincter (Ishizaka, N. (787) 344)

Human visual cortex
Substance P; Neurokinin 1 receptor; Autoradiography (Kus, L. (794) 309)

Hunger
2,5-Anhydro-D-mannitol; c-Fos; Feeding behavior; Food intake; Rat; Metabolism (Horn, C.C. (779) 17)

Methyl palmoxirate; c-Fos; Feeding behavior; Food intake; Metabolism; Rat (Horn, C.C. (781) 8)

Huntington's disease
Basal ganglia; Striatum; Globus Pallidus; Quinolinic acid; Lesion; Water maze; Rat (Joel, D. (787) 143)

5-HT_{1B} receptor; Parkinson's disease; Progressive supranuclear palsy; Striatonigral degeneration; [^{3}H]sumatriptan (Castro, M.E. (790) 323)

N-acetylaspartylglutamate; Oligodendrocyte; Microglia; Alzheimer's disease; Excitatory amino acid; Peptide (Passani, L. (794) 143)

Anxiety; Motor activity; Exploration; Benzodiazepine receptor (File, S.E. (805) 234)

3-Nitropropionic acid; Apoptosis; Mitochondria; *bcl*-2; *bcl-x*; c-*jun* (Sato, S. (808) 56)

Hydrocephalus
Brain; Rat; HPLC; Dopamine; Taurine; Cerebrospinal fluid shunt (Del Bigio, M.R. (798) 119)

Hydrogen ion concentration
Anoxic depolarization; Brain slice; Energy metabolism; Hypoxia; Lactate; SNARF; Synaptic transmission (Roberts Jr., E.L. (783) 44)

Hydrogen peroxide
Trisomy 16 mouse; Cortical primary culture; Oxidative stress; Western blot analysis; Metallothionein I/II; Glutamate receptor stimulation (Scortegagna, M. (787) 292)

Oxidative stress; Mouse; Hypoglycemia (Lee, J.E. (795) 10)

Hydroxyapatite
Excitotoxicity; Neurodegeneration; Calcium deposits; Calcium binding proteins; Glial reaction (Herrmann, G. (786) 205)

γ-Hydroxybutyric acid (GHB)
Absence seizure; Neuroactive steroid; Thalamus; Binding (Banerjee, P.K. (813) 343)

6-Hydroxydopamine
Parkinson's disease; Fixed-ratio discrimination training; Replacement therapy; Striatum; Accumbens; Dopamine; Apomorphine; Amphetamine (Van Keuren, K.R. (780) 56)

Lesch–Nyhan syndrome; Fixed ratio discrimination training; Striatum; Dopamine; Apomorphine (Stodgell, C.J. (783) 10)

Nigral transplant; Striatum; L-DOPA; 5-Hydroxytryptophan; Serotonin; Microdialysis; Rat (Ishida, Y. (788) 207)

Microdialysis; Nigrostriatal lesion; Opioid; Striatum; Substantia nigra (Kimmel, H.L. (789) 171)

Schizophrenia; Mesocortical; In vivo; Neurophysiology (Harden, D.G. (794) 96)

Arachidonic acid; Autoradiography; Basal ganglia; Brain metabolism; Fatty acid; Functional brain imaging; Parkinson's disease; Phospholipase A_2 (Hayakawa, T. (807) 177)

Methamphetamine; Fos; Striatum; Substantia nigra pars reticulata; Transplant (Ishida, Y. (809) 107)

6-Hydroxydopamine-lesion
Dopamine; NMDA; DOPAC; Striatum (Andrés, M.E. (797) 255)

Parkinson's disease; Basal ganglia; NMDA antagonist; Genistein; Motor response alteration (Oh, J.D. (813) 150)

6-Hydroxydopamine-lesioned rat
Parkinson's disease; Grafting; Nitric oxide; Nitric oxide synthase; N^{ω}-nitro-L-arginine methylester (L-NAME) (Van Muiswinkel, F.L. (792) 48)

Hydroxylamine
Nitric oxide; Periaqueductal gray; Blood pressure; GABA; Enkephalin; Glutamic acid; TRIM; Sodium nitroprusside (Hall, C.W. (805) 69)

17α-Hydroxylase/c17, 20-lyase
Cholesterol side-chain cleavage enzyme; 3β-Hydroxysteroid dehydrogenase/Δ^5-Δ^4-isomerase; Messenger RNA expression; Neurosteroids; Postnatal life; Rat brain; Reverse transcription-polymerase chain reaction (Kohchi, C. (801) 233)

Hydroxyl radical
Hyperglycemia; Cerebral ischemia; Reperfusion; Nitric oxide; NOS inhibitor; Glutamate; Magnetic resonance imaging; Superparamagnetic iron oxide (Wei, J. (791) 146)

Glutamate; Excitotoxicity; Microdialysis; Striatum; Rat (Lancelot, E. (809) 294)

6-OHDA; Hypoxia; Substantia nigra; Oxidative stress; Parkinson's disease; Cytochrome P450 (Dajas-Bailador, F.A. (813) 18)

4-Hydroxy-3-methoxyphenylacetic acid
Aging; 3,4-Dihydroxyphenylacetic acid; D-amphetamine; Microdialysis; F344BNF$_1$ rat (Yurek, D.M. (791) 246)

4-Hydroxy-2-nonenal
Rosenthal fiber; Alexander's disease; Immunohistochemistry (Castellani, R.J. (787) 15)

2-Hydroxysaclofen
Baclofen; Bicuculline methiodide; $GABA_A$ receptor; Blood pressure (DiMicco, J.A. (788) 245)

3β-Hydroxysteroid dehydrogenase/Δ^5-Δ^4-isomerase
Cholesterol side-chain cleavage enzyme; 17α-Hydroxylase/c17, 20-lyase; Messenger RNA expression; Neurosteroids; Postnatal life; Rat brain; Reverse transcription-polymerase chain reaction (Kohchi, C. (801) 233)

5-Hydroxytryptamine$_{1A}$
8-OH-DPAT; Serotonin receptor; Hypothermia; Selective breeding; Cortex; Autoradiography (Knapp, D.J. (782) 1)

5-Hydroxytryptamine
Brain; Cerebral blood flow; Migraine; Ritanserin (Gold, L. (783) 188)

Adenylyl cyclase; Astrocyte; Cyclic AMP; Desensitization; 5-HT_7 receptor; Frontal cortex; Neuron (Shimizu, M. (784) 57)

Wasting disorder; Failure to thrive; Feeding; Food deprivation; Ontogeny; Gene expression; Hypothalamus (Jahng, J.-W. (790) 67)

Cortex; Paraventricular nucleus; Bed nucleus; Caudate–putamen; Amygdala; Brainstem (Javed, A. (791) 67)

5-Hydroxytryptamine (5-HT, serotonin) antidepressant
Fenfluramine; Hypothalamus; Estrous; Gender (Gundlah, C. (785) 91)

5-Hydroxytryptophan
6-Hydroxydopamine; Nigral transplant; Striatum; L-DOPA; Serotonin; Microdialysis; Rat (Ishida, Y. (788) 207)

Hyperalgesia
Pain; Mouse; Intrathecal; Substance P; Substance P fragment (Goettl, V.M. (780) 80)

Noxious heat; Amphibia (Lynn, B. (780) 360)

Allodynia; Chronic constriction injury; Tumor-necrosis-factor; Interleukin-1; Wallerian degeneration (Sommer, C. (784) 154)

Allodynia; Visible flare; Thermography; Blood flow; Capsaicin (Mohammadian, P. (792) 1)

Nitric oxide; NO-releasing compound; Nerve injury; Spinal cord; Cyclic GMP (Inoue, T. (792) 263)

Antinociception; Formalin; Plantar test; Tramadol (Bianchi, M. (797) 163)

Chronic neuropathy; Carrageenan-induced inflammation; Allodynia; Spinalization; Nocifensive reflex (Kauppila, T. (797) 234)

Allodynia; Capsaicin; Inflammation; Pain; Tactile perception; Touch; Vibration (Kauppila, T. (797) 361)

Glutamate; Aspartate; Microdialysis; cGMP; cAMP; Protein kinase; Pain; Dorsal horn (Sluka, K.A. (798) 281)

Nicotinic acetylcholine receptor; Chung model; Morphine; Diabetic neuropathy; Allodynia (Bannon, A.W. (801) 158)

Allodynia; Central nervous system; Cerebral inflammation; Lipopolysaccharide; Nociception (Cahill, C.M. (808) 13)

Formalin; Pain; Cannabinoid; SR141716A (Strangman, N.M. (813) 323)

Hyperammonemia
Hepatic encephalopathy; Perforated patch; Electrochemical trapping; Barium-sensitive potassium channel (Allert, N. (782) 261)

Rat brain; Ammonia; Kynurenic acid; Excitotoxicity (Saran, T. (787) 348)

Hypercapnia
Whisker–Barrel; Laser–Doppler; Functional hyperemia; Local cerebral blood flow (Gerrits, R.J. (783) 151)

Hyperexcitability
Kindling; Rat; Hippocampus; Epilepsy (Elmér, E. (789) 111)

Hyperglycemia
Microdialysis; Hypothalamus; Swimming stress; Noradrenaline; Acetylcholine (Gotoh, M. (780) 74)

Cerebral ischemia; Capillary patency; Fluorescent double staining; Cerebral blood flow; Microcirculation (Li, P.-A. (782) 175)

MRI; Diffusion; ADC; MCAO; Stroke (Huang, N.C. (788) 137)

Pyruvate dehydrogenase; Energy metabolism; Ischemia (Katayama, Y. (788) 302)

Cerebral ischemia; Reperfusion; Nitric oxide; NOS inhibitor; Hydroxyl radical; Glutamate; Magnetic resonance imaging; Superparamagnetic iron oxide (Wei, J. (791) 146)

Bacterial meningitis; Hypoglycorrhachia; Cerebral metabolism; Newborn piglet (Park, W.S. (798) 195)

Hypoxia–ischemia; Cerebral metabolism; Newborn piglet; Near infrared spectroscopy (Chang, Y.S. (798) 271)

Focal ischemia; Capillary patency; Pathology; Leukocyte; Cerebral blood flow (Li, P.-A. (804) 36)

Blood flow; Peripheral nerve; Rat (Kalichman, M.W. (810) 130)

Hypernatremia
Angiotensin; Water intake (Starbuck, E.M. (795) 37)

Hyperoxia
Arterial chemoreceptor; Carotid body; Cyanide; Dopamine; Nitric oxide (Iturriaga, R. (799) 26)

Paradoxical sleep; REM sleep; Rhythm; Oxygen; Hypothermia; Acetylcholine (Arnulf, I. (807) 160)

Hyperphagia
PYY; Acetylcholine; Microdialysis; HPLC; Feeding behavior (Hagan, M.M. (805) 20)

Hyperphosphorylated tau
Cdk5; GSK-3; MAP kinase; Neurofibrillary tangles; Alzheimer's disease (Pei, J.-J. (797) 267)

Hyperpolarization-activated current
Whole-cell patch clamp; Brain slice; Rat olfactory cortex neurone; Development; Slow h-current (I_h); Fast inward rectification; Specific I_h blocker: ZD 7288 (Sciancalepore, M. (814) 133)

Hypertension
Nerve growth factor; Sympathetic; Micturition; Autonomic; Bladder smooth muscle (Spitsbergen, J.M. (790) 151)

Adenosine; A_1 receptor; Dorsal vagal complex; Nodose ganglion (Krstew, E. (802) 61)

Blood pressure; Endothelin receptors; Gene targeting; Baroreceptor reflex; Chemoreceptor reflex (Ling, G.-Y. (808) 238)

Hypertensive eye
c-*fos*; Glaucoma; MK-801; NMDA receptor (Chaudhary, P. (792) 154)

Hypertensive eyes
Cell death; Intraocular pressure; Retina; Retinal ganglion cells (Laquis, S. (784) 100)

Hypertensive rat
Timm staining; Neocortex; Striatum; Thalamus (Sørensen, J.C. (812) 265)

Hyperthermia
Cerebral ischemia; Prostaglandin (Thornhill, J. (784) 48)

Methamphetamine; Dopamine; Serotonin; Neurotoxicity; Rat; Tyrosine hydroxylase; Glial fibrillary acidic protein; Western blot (Fukumura, M. (806) 1)

Hyperthyroidism
Aging; Thyroid hormone; Hormone action; Hypothyroidism; Cerebral response (Mooradian, A.D. (793) 302)

Hypoglossal motoneuron
Respiration; Norepinephrine; Medullary brain slice; Mouse (Selvaratnam, S.R. (805) 104)

Hypoglossal nerve
Vomiting; Swallowing; Upper airway; Larynx; Pharynx; Superior laryngeal nerve; Glossopharyngeal nerve (Umezaki, T. (781) 25)

Hypoglossal nucleus
Enkephalin; Tongue; Rat; Respiration; Upper airway (Aldes, L.D. (780) 67)

Hypoglycemia
Feeding; Amygdala; Acetylcholine; Microdialysis; Insulin; Glucose; Rat (Hajnal, A. (785) 41)

Oxidative stress; Mouse; Hydrogen peroxide (Lee, J.E. (795) 10)

Hypoglycorrhachia
Bacterial meningitis; Hyperglycemia; Cerebral metabolism; Newborn piglet (Park, W.S. (798) 195)

Hypometabolism
Middle cerebral artery; Estradiol; Cerebral blood flow; β-Amyloid precursor protein (Shi, J. (810) 87)

Hypoperfusion
Amyloid-β; β protein precursor; Oxidative stress; Vasculature atrophy (Perry, G. (791) 63)

Hypotension
Hypothalamic paraventricular nucleus; Rostral ventrolateral medulla; Fos immunoreactivity (Badoer, E. (801) 224)

Endomorphin 1; Endomorphin 2; Vagal afferent; Bradycardia; Opiate; μ-Opiate receptor (Kwok, E.H. (803) 204)

Hypothalamic injection
Xenin; Intracerebroventricular injection; Feeding behavior; Satiety; Food intake (Alexiou, Ch. (800) 294)

Hypothalamic locomotor region
Hippocampal theta rhythm; Speed of locomotion; Rat (Sławińska, U. (796) 327)

Hypothalamic neuron
Temperature sensitivity; Opioid receptor agonist and antagonist; Opioid-hypothermia; Rat (Yakimova, K.S. (786) 133)

Thyrotropin releasing hormone; c-*fos*; c-*jun*; Glucocorticoid (Luo, L.-G. (791) 56)

Hypothalamic nucleus
Renin; Angiotensin; Vasopressin; Angiotensin 1–7; Immunocytochemistry; Transgenic rat (Krob, H.A. (798) 36)

Hypothalamic paraventricular nucleus
Rostral ventrolateral medulla; Fos immunoreactivity; Haemorrhage (Badoer, E. (791) 317)

Rostral ventrolateral medulla; Fos immunoreactivity; Hypotension (Badoer, E. (801) 224)

Hypothalamic-pituitary-adrenal axis
Area postrema; Sympathoadrenomedullary; Glucoprivic feeding; 2-deoxy-D-glucose; Corticosterone (Edmonds, B.K. (801) 21)

Hypothalamus
PNMT; Catecholamine; Rat; mRNA; RT-PCR (Andreassi II, J.L. (779) 289)

Microdialysis; Swimming stress; Noradrenaline; Acetylcholine; Hyperglycemia (Gotoh, M. (780) 74)

$GABA_A$ receptor; Sexual development; In situ hybridization; Immunohistochemistry (Jung, H. (780) 218)

Microdialysis; Oxytocin; Vasopressin; Stress (Nishioka, T. (781) 57)

Corticotropin-releasing factor; Seizure; Extrahypothalamus; Neuronal injury; Neuronal degeneration (Piekut, D.T. (781) 100)

Defense rage behavior; GABA; $GABA_A$ receptor; Muscimol; Bicuculline; Fluoro-Gold; Immunocytochemistry; Cat (Cheu, J.W. (783) 293)

5-Hydroxytryptamine (5-HT, serotonin) antidepressant; Fenfluramine; Estrous; Gender (Gundlah, C. (785) 91)

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RU-486; Stress; Opioid; Proenkephalin; CRH; mRNA (García-García, L. (786) 215)

Leptin; Leptin receptor; OB protein; OB-R; Obesity; Thalamus; Piriform cortex; Choroid plexus; Concentration of hydrogen ions (Corp, E.S. (789) 40)

Aromatase; 5α-Reductase; Rats; Testosterone; Progesterone (Lephart, E.D. (789) 327)

c-*fos*; Immediate early gene; Raphe nuclei; Supramammillary region; Hippocampus; Stress; Arousal; Double labeling (Wirtshafter, D. (789) 331)

Wasting disorder; Failure to thrive; Feeding; Food deprivation; Ontogeny; Gene expression; 5-Hydroxytryptamine (Jahng, J.-W. (790) 67)

Nitric oxide; GnRH; CRH; Opiate receptor; Cannabinoid receptor; Opioid; Median eminence (Prevot, V. (790) 236)

Preoptic area; Frontal cortex; Brain slices; Synaptosome; NMDA (Fiber, J.M. (790) 329)

Gonadotropin-releasing hormone; Tyrosine hydroxylase; Nitric oxide; Gene expression (Wang, H. (792) 66)

Feeding; Immunohistochemistry; In situ hybridization; Plasticity (Cheng, X. (792) 89)

Calorie restriction; Sympathetic nervous system; Aortic constriction (VanNess, J.M. (792) 237)

Preoptic area; Rhesus monkey; Sex difference; Cytoarchitecture; Human (Byne, W. (793) 346)

Interleukin; Tumor necrosis factor; Leptin; Neuropeptide Y; Opioid; Glucocorticoid; Corticotropin; Endotoxin; Nervous system; Cerebellum; Hippocampus; Feeding; Food intake; RNase protection; Competitive RT–PCR (Gayle, D. (795) 77)

Cholecystokinin; CCK receptor; Midbrain periaqueductal gray; Defensive rage; Predatory attack; Cat (Luo, B. (796) 27)

Circadian; Entrainment; Muscarinic; Suprachiasmatic; Rhythm; Cerebral cortex; Receptor (Bina, K.G. (797) 143)

Brain; Microdialysis; Dopamine; Acetylcholine; Nucleus accumbens; Feeding behavior; Galanin; Neuropeptide Y; Paraventricular nucleus; Microinjection (Rada, P. (798) 1)

Preoptic area; Slice system; ATP; Tamoxifen; Fluphenazine (Gray, J.M. (798) 223)

Obesity; Food deprivation; Neuron (Huang, X.-F. (799) 307)

Δ^9-THC; Anandamide; Cannabinoid; c-*fos*; Rat (McGregor, I.S. (802) 19)

Arcuate nucleus; Paraventricular nucleus; Adiposity; Eating behavior; Insulin (Wang, J. (802) 75)

Pick's disease; Lateral tuberal nucleus; Tuberomamillary nucleus; Neuronal cytoskeleton; Tauopathy; Tau-protein (Braak, H. (802) 119)

Neuroendocrine regulation; Prolactin receptor; Dopaminergic neuron; Estradiol; Progesterone; Arcuate nucleus; Periventricular nucleus (Lerant, A. (802) 141)

Anorexia; Anti-obesity peptide; NPY; Schedule-feeding (Chance, W.T. (803) 39)

Sleep; Arousal; Preoptic area; Electroencephalogram; Sleep deprivation (Szymusiak, R. (803) 178)

Indoleamine; Wild mouse; Deermouse; Photoperiod; Cartography; Neuroendocrine (Phelix, C.F. (808) 197)

Reflex ovulation; Olfaction; Pheromones; Sex differences; Copulation; GnRH (Gill, C.J. (811) 21)

P2X receptor; Purinoceptor; ATP; Brain; Central nervous system (Xiang, Z. (813) 390)

Hypothermia
8-OH-DPAT; 5-Hydroxytryptamine$_{1A}$; Serotonin receptor; Selective breeding; Cortex; Autoradiography (Knapp, D.J. (782) 1)

Protein kinase C; Phorbol 12,13-dibutyrate; Autoradiography; Cerebral ischemia; Middle cerebral artery occlusion; Rat (Tohyama, Y. (782) 348)

Repetitive hypoxia; Hippocampal slice; Neuroprotection; DC-potential (Greiner, C. (786) 267)

Neurotensin; Neurotensin receptor; Levocabastine; Antinociception (Tyler, B.M. (787) 78)

Autoregulation; Awake rat; Cerebral blood flow; Autoradiography (Niwa, K. (789) 68)

Cyclic GMP; Nitric oxide synthase; Perinatal asphyxia; Striatum; Rat pup (Loidl, C.F. (791) 303)

Neurotensin; Neurotensin receptor; Antinociception (Tyler, B.M. (792) 246)

Delayed neuronal death; Gerbil; Forebrain ischemia; DNA fragmentation (Niwa, M. (794) 338)

Paradoxical sleep; REM sleep; Rhythm; Oxygen; Hyperoxia; Acetylcholine (Arnulf, I. (807) 160)

Cerebral ischemia; Cerebral blood flow; Microdialysis; Nitric oxide; Rat (Sugimura, T. (808) 313)

Hypothyroidism
Aging; Thyroid hormone; Hormone action; Hyperthyroidism; Cerebral response (Mooradian, A.D. (793) 302)

Hypovolemia
Fos; In situ hybridization; NADPH diaphorase; Nitric oxide synthase; Paraventricular nucleus; Polyethylene glycol; Supraoptic nucleus (Ueta, Y. (790) 25)

Brain stem; Cardiovascular system; Fos-protein; Blood pressure (Anselmo-Franci, J.A. (799) 278)

Hypoxanthine
Guinea pig; Rat; Microwave fixation; Complete brain ischemia; Adenosine; Inosine; Adenosine deaminase (Kobayashi, T. (787) 211)

Brain slice; Cerebellum; Superior colliculus; Hippocampus; Anoxia; Adenosine; Inosine; ATP (Yamada, T. (787) 220)

Hypoxia
CA1; CA3; Eliprodil; Hippocampus; Ischemia; Neuronal death; Neuroprotection; *N*-Methyl-D-aspartate; NR2B; Stroke (Reyes, M. (782) 212)

Anoxic depolarization; Brain slice; Energy metabolism; Hydrogen ion concentration; Lactate; SNARF; Synaptic transmission (Roberts Jr., E.L. (783) 44)

Apoptosis; DNQX; Neuron; Oxidative stress; Trolox (Copin, J.-C. (784) 25)

Neuroprotection; Hippocampal slice; Ischemic tolerance; Gerbil (Tokunaga, H. (784) 316)

Carotid body; Intracellular calcium; Dopamine; Perfusion; K^+–O_2 current (Roy, A. (785) 228)

Nitric oxide; Brain; Mitochondria; Perinatal (Bolaños, J.P. (787) 117)

K^+ channel; Ca^{2+} channel; Carotid body; Chemotransduction; Arachidonic acid (Hatton, C.J. (787) 315)

Aging; Brain slice; Dizocilpine; Hippocampus; Ion transport; Potassium ion homeostasis (Roberts Jr., E.L. (791) 321)

Carotid body; Glomus cells; Intercellular coupling; Acidity; cAMP; Voltage clamping; Microelectrodes (Abudara, V. (792) 114)

Ischemia; Potassium; Field potentials (Schmidinger, A. (794) 28)

Noradrenaline; Respiration; Rat; Pons; Guanabenz; Post-hypoxic frequency decline; SK&F-86466 (Coles, S.K. (794) 267)

Nitric oxide synthase; Carotid body; Chemoreception; Immunohistochemistry; Rat (Kusakabe, T. (795) 292)

Carotid body; Glomus cell; Intracellular sodium; Voltage clamp; Cobalt; Barium; TTX (Jiang, R.-G. (797) 197)

Neuron; Death; Apoptosis; Gene; p53 (Banasiak, K.J. (797) 295)

Free radical; Fetal brain; In utero; Peroxidation; Na^+,K^+-ATPase (Maulik, D. (798) 166)

NMDA receptor; NR1; NR2A; NR2B; Newborn (Kim, W.-T. (799) 49)

Glomus cell; Neuropeptide Y; Tyrosine hydroxylase; Immunohistochemistry; Electron microscopy (Kameda, Y. (805) 191)

Chronic hypoxia; Carotid body; K^+ current; Ca^{2+} current (Carpenter, E. (811) 79)

Spreading depression; Anoxia; Input resistance; Glutamate pharmacology; Intrinsic optical signal (Müller, M. (812) 1)

Brain; Purine; Pyrimidine; K_{ATP} channel; Diazoxide; Tolbutamide (Pissarek, M. (812) 164)

Ischemia; Angiogenesis; Astroglia; Vascular endothelial growth factor (Sinor, A.D. (812) 289)

6-OHDA; Substantia nigra; Hydroxyl radical; Oxidative stress; Parkinson's disease; Cytochrome P450 (Dajas-Bailador, F.A. (813) 18)

Calcium; Sodium; Fura-2; Glutamate; Glutamate transporter; Na^+–Ca^{2+} exchanger (Yamaguchi, S. (813) 351)

Cyclic nucleotide; Opioid; Glia (Armstead, W.M. (813) 398)

Hypoxia / ischemia
Hippocampal slice; NMDA receptor; Extracellular pH change; Patch clamp tight-seal whole cell recording (Saybasili, H. (786) 128)

Hypoxia–ischemia
Neonate; Cysteine; Neurotoxicity; Sulfur-containing amino acid; Excitatory amino acid (Puka-Sundvall, M. (797) 328)

Hyperglycemia; Cerebral metabolism; Newborn piglet; Near infrared spectroscopy (Chang, Y.S. (798) 271)

Brain; Iron; Neonate; Transgenic; Mouse (Sheldon, R.A. (810) 114)

Hypoxic / ischemic
TrkB; Immunocytochemistry; BDNF; NT-4/5 (Narumiya, S. (797) 278)

60 Hz
Antinociception; Nitric oxide; ELF magnetic field; Nitric oxide synthase (Kavaliers, M. (809) 50)

I

$I_{K(Ca)}$
Chromaffin cell; Intracellular Ca^{2+}; Exocytosis; Bradykinin; Caffeine (Kim, S.J. (799) 197)

Iberiotoxin
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Ibogaine
Noribogaine; 18-Methoxycoronaridine; Serotonin; In vivo microdialysis; Nucleus accumbens; Striatum; Rat (Wei, D. (800) 260)

Dopamine release; Kappa-opioid; NMDA; Cocaine; Gender (Sershen, H. (801) 67)

Ibogaine mechanism
Nicotinic acetylcholine receptor; Anti-addictive agent; Chromaffin cell; Catecholamine release (Mah, S.J. (797) 173)

ICAM-1
Apoptosis; Cerebral ischemia (Soriano, S.G. (780) 337)

Choroid plexus; Arachnoid membrane; Dural sinus; Immuno-SEM (Endo, H. (793) 297)

ICE
Delayed neuronal death; Apoptosis; Necrosis; Cycloheximide; *Bax* (Bossenmeyer, C. (787) 107)

ICE family protease
Cerebellar granule cell; Apoptosis; CPP32; Caspase (Harada, J. (793) 231)

ICS205-930
Antidepressant; 1-(*m*-Chlorophenyl)-biguanide (mCPBG); Forced swim test; Rat (Nakagawa, Y. (786) 189)

Ictal activity
Epilepsy; Afterdischarge; Interictal activity; T-type calcium channel; Hippocampal slice (Higashima, M. (781) 129)

Ictal behavior
Seizure pattern; Interictal behavior; Cortical stimulation; Kindling; Electroconvulsive shock (Della Paschoa, O.E. (814) 199)

Idazoxan
Nociception; Opioids; Prazosin; Spinal cord; WB4101 (Fang, F. (790) 14)

Identified neurones
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Ifenprodil
Spontaneous diazepam withdrawal; Dizocilpine; Long-term diazepam treatment; Drug-admixed food (DAF) method; Fischer 344 rat (Tsuda, M. (790) 82)

Cerebral edema; Fluid-percussion brain injury; Memory; Neurologic motor function; NMDA receptor blocker (Okiyama, K. (792) 291)

IGF
Apoptosis; In vitro; Neurotrophin; TGF-β2; FGF (Oorschot, D.E. (789) 315)

IGF-I
Insulin-like growth factor I; Brain aging; In situ hybridization; Dot blot (Niblock, M.M. (804) 79)

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192 IgG-saporin
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IGL (Intergeniculate Leaflet)
SCN (Suprachiasmatic Nucleus); Circadian rhythm; Comparative anatomy; vLGN (Ventral Lateral Geniculate Nucleus); Neuropeptide Y (Chevassus-au-Louis, N. (805) 213)

IL-1
gp120; HIV; MADB106; Tumor; Metastasis (Hodgson, D.M. (781) 244)

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Image analysis
Primary afferent; Inflammation; Pain; Spinal dorsal horn (Polgár, E. (786) 248)

Amyloid; Alzheimer's disease; Neuronal culture; GABA immunocytochemistry; Scanning electron microscopy (Pakaski, M. (796) 239)

Argyrophilic grains; Alzheimer disease; Axonal transport; Neurofibrillary tangles; Neuropil threads (Velasco, M.E. (813) 329)

Image-processing
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Imaging
Astrocyte; Intercellular communication; Calcium wave; Adrenergic receptor; Primary culture (Muyderman, H. (793) 127)

Imidazole
Forskolin; Arginine vasopressin; Papaverine; Adenylate cyclase inhibitor; Phosphodiesterase activator; Phosphodiesterase inhibitor; Superior cervical ganglion (Hogan, Y.H. (787) 242)

Imidazoline receptor
Behavior; Antihypertensive drug; Neuron; Glia; Rat; Immunocytochemistry (Ruggiero, D.A. (780) 270)

Agmatine; Clonidine displacing substance; Rat; Immunohistochemistry (Otake, K. (787) 1)

Arterial blood pressure; Heart rate; Intracerebroventricular; α-Adrenoceptor; H_2-histamine receptor; 5-HT_{1A} receptor (Ally, A. (810) 153)

Immediate early gene
Long term potentiation; Slice; Imprinting; Passive avoidance; Learning (Yanagihara, S. (779) 240)

c-*fos*; Raphe nuclei; Supramammillary region; Hypothalamus; Hippocampus; Stress; Arousal; Double labeling (Wirtshafter, D. (789) 331)

Arvicanthis niloticus; Diurnal; Suprachiasmatic nucleus; Fos; Rhythm (Katona, C. (791) 27)

Maternal behavior; Medial preoptic area; c-Fos; Fos B (Numan, M. (792) 348)

Digoxigenin; Inducible transcription factor; In situ hybridization (Beer, J. (794) 255)

Fos; GABA; Acetylcholine; Nicotinic receptor; Directional selectivity (Araki, C.M. (794) 333)

N-methyl-D-aspartate receptor; Immunocytochemistry; Pain; Spinal cord; Rat (Zhang, R.-X. (795) 282)

Genitourinary; Parasympathetic; Spinal cord; c-*fos*; Bladder (Grill, W.M. (796) 150)

Median preoptic nucleus (MnPO); Preoptic area; Differential neuronal activation (Patronas, P. (798) 127)

Transient ischemia; Maturation phenomenon; Heat shock gene; TUNEL (Hermann, D.M. (799) 35)

c-*fos*; c-*jun*; Traumatic brain injury; Messenger RNA; In situ hybridization (Katano, H. (800) 69)

Suprachiasmatic nucleus; Dorsomedial part; Circadian rhythm; c-Fos; Spontaneous expression (Sumová, A. (801) 254)

Cytokine; Nodose ganglia; Immune-to-brain communication; Autonomic; Immunohistochemistry (Goehler, L.E. (804) 306)

Lower urinary tract; Spinal cord; Nociception; Capsaicin; K^+-channel-opener (Yu, Y. (807) 11)

Suprachiasmatic nucleus; Circadian rhythm; Geniculohypothalamic tract; *N*-methyl-D-aspartate receptor (Edelstein, K. (810) 264)

c-*fos*; hsp70; Brain slices; Apoptosis; NMDA; Translation; Transcription; Neonate; Stress proteins (Hasegawa, K. (785) 262)

Quinpirole; c-*fos*; Shuttle box; Striatum; Dopamine; D_2 receptor; Caudate-putamen (Struthers, W.M. (785) 347)

Immune-to-brain communication
Cytokine; Nodose ganglia; Autonomic; Immediate-early gene; Immunohistochemistry (Goehler, L.E. (804) 306)

Immunochemistry
Nitric oxide; Brain development; Methylazoxymethanol acetate; NADPH-diaphorase (Tregnago, M. (793) 54)

Neuromedin K receptor; Dopaminergic neuron; Co-localization; Midbrain; Rat (Chen, L.-W. (780) 150)

Imidazoline receptor; Behavior; Antihypertensive drug; Neuron; Glia; Rat (Ruggiero, D.A. (780) 270)

Nitric oxide; NO donor; cGMP; Neuron; Mollusc; *Helix pomatia* (Huang, S. (780) 329)

Electron microscopy; Estrogen receptor; Medial preoptic nucleus; Periventricular preoptic nucleus; Substance P (Kalló, I. (781) 335)

Double labeling; Gamma-aminobutyric acid (GABA); Enucleation; Anuran (Gábriel, R. (782) 53)

Defense rage behavior; Hypothalamus; GABA; $GABA_A$ receptor; Muscimol; Bicuculline; Fluoro-Gold; Cat (Cheu, J.W. (783) 293)

Calcium binding protein; Dual staining; Magnocellular neuroendocrine cell (Miyata, S. (785) 178)

Baroreceptor; Carotid sinus nerve; Chemoreceptor; Histochemistry; Synapse; Transganglionic transport; Ultrastructure (Massari, V.J. (785) 329)

Guinea pig; Tooth pulp; Jaw-opening reflex; NK1 antagonist; Substance P; Primary sensory neuron (Alia, S. (787) 99)

Mushroom body; Associative memory; Insect; Brain; GABA; Inhibitory transmitter (Yamazaki, Y. (788) 80)

Type VII adenylyl cyclase; In situ hybridization; Rat (Mons, N. (788) 251)

Neurotrophic factor; Parkinson's disease; Substantia nigra; GDNF (Lapchak, P.A. (789) 9)

Calbindin-D28k; Calcium-binding protein; Olfaction (García-Ojeda, E. (789) 101)

Amyotrophic lateral sclerosis; GDNF receptor; RET; Spinal motoneuron (Duberley, R.M. (789) 351)

Glutamate; Excitatory amino acid; Periaqueductal grey; Electron microscopy (Azkue, J.J. (790) 74)

Substantia nigra; Parkinson's disease; Growth factor; Tyrosine kinase; Dopaminergic (Walker, D.G. (792) 207)

N-methyl-D-aspartate receptor; Immediate early gene; Pain; Spinal cord; Rat (Zhang, R.-X. (795) 282)

FOS; Arachidonylethanolamide; Marijuana; Cannabinoid receptor (Patel, N.A. (797) 225)

NFκB; Electron microscopy; Axotomy; Chronic constriction injury; Sciatic nerve; Dorsal root ganglion (Ma, W. (797) 243)

TrkB; Hypoxic/ischemic; BDNF; NT-4/5 (Narumiya, S. (797) 278)

Renin; Angiotensin; Vasopressin; Angiotensin 1–7; Hypothalamic nucleus; Transgenic rat (Krob, H.A. (798) 36)

GABA; Receptor; Alzheimer's disease; Hippocampus (Mizukami, K. (799) 148)

Auditory brainstem response; Calcium-binding protein; Cochlear nucleus; Quantification; Noise (Idrizbegovic, E. (800) 86)

Steroid hormone; Neurosteroid; Aging; S100 (Legrand, A. (802) 125)

Catecholamine; Heart; Histochemistry; Intrinsic cardiac ganglion; Synapse; Transganglionic transport; Ultrastructure; Vagus nerve (Massari, V.J. (802) 205)

Brain injury; Gamma irradiation; Astrocyte proliferation; Autoradiography; GFAP; S-100β protein; Developing rat (Setkowicz, Z. (803) 122)

Synapse; Cocaine; MDMA; Methamphetamine; Depression; High-affinity uptake; Voltammetry; Electron microscopy; Autoradiography; Citalopram; Paroxetine (Zhou, F.C. (805) 241)

Amacrine cell; Ganglion cell; Cone photoreceptor; Outer segment; Horizontal cell; NMDA-R2A; NMDA-R2B; Calbindin; Parvalbumin; Colocalization with GABA (Goebel, D.J. (808) 141)

Visual system; Accessory optic system; Old World monkey (Nakagawa, S. (809) 198)

Neurofilament proteins; Mossy fibers; Rat hippocampus; Fascia dentata; Development (Mikuni, N. (811) 1)

Leptin receptor; Estrogen receptor; Rat (Diano, S. (812) 256)

Glial development; Human fetal brain; CD68; EBM-11; CD34; RCA-1; Lectins (Andjelkovic, A.V. (814) 13)

Antibody; α7 subunit; Chemoreceptor; Tyrosine hydroxylase (Shirahata, M. (814) 213)

Kainic acid; Tanycyte; Astrocyte; In situ hybridization; c-*fos* (Eyigor, O. (814) 231)

Immunodeficiency
Mouse; Met-enkephalin; γ-Amino butyric acid; Acetylcholine; Substance-P; Striatum (Kustova, Y. (793) 119)

Immunoelectron microscopy
Glucose transporter; Brain; Glia; Microvessel; Immunohistochemistry (Yu, S. (797) 65)

Kallikrein; Rat pineal gland; Immunohistochemistry; Vasoactive intestinal polypeptide; Perivascular space; ELISA; Circadian rhythm (Kudo, M. (797) 287)

Immunofluorescence
GAP-43; Human neocortex; Ischemia; Confocal laser scanning microscopy (Akulinin, V.A. (784) 341)

Immunohistochemistry
Choline acetyltransferase; Cranial nerve motor nucleus; Spinal cord; Monkey; Cholinoceptivity (Ichikawa, T. (779) 96)

$GABA_A$ receptor; Sexual development; Hypothalamus; In situ hybridization (Jung, H. (780) 218)

Amphetamine; c-Fos; FRA; Striatum; Behavioral sensitization; Dopamine (Turgeon, S.M. (782) 329)

Apoptosis; Neuron; Development; Aging; Western blotting (Obonai, T. (783) 167)

Fibroblast growth factor-9; Neurotrophic factor; Brain; Neuron (Todo, T. (783) 179)

c-Fos; Potassium; Brain injury; Glial fibrillary acidic protein (Herrera, D.G. (784) 71)

Heparin-binding EGF-like growth factor (HB-EGF); In situ hybridization; Rat brain; Neuron (Hayase, Y. (784) 163)

Glutamate; Parvalbumin; Birds; Tectum; Nucleus rotundus; Nucleus triangularis; Ectostriatum; Heterogeneity; Dorso–ventral gradient (Theiss, C. (785) 114)

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Neuronal cell death; Nerve transection; Calcium binding protein; Rat; In situ hybridisation (Dassesse, D. (786) 181)

Agmatine; Clonidine displacing substance; Imidazoline receptor; Rat (Otake, K. (787) 1)

Rosenthal fiber; 4-Hydroxy-2-nonenal; Alexander's disease (Castellani, R.J. (787) 15)

Endothelial nitric oxide synthase; Brain development; Vasculature; Rat; Tyramide-signal amplification (Töpel, I. (788) 43)

Descending inhibition; Nociception; Propriospinal; *fos* (Jones, S.L. (788) 337)

Fos; Haloperidol decanoate; Chronic treatment; Antipsychotic action; Limbic (Sun, Y.-J. (791) 125)

Feeding; Hypothalamus; In situ hybridization; Plasticity (Cheng, X. (792) 89)

Iron regulatory protein; Bergmann glia; Purkinje cell; Chicken brain (Cho, S.S. (794) 174)

Excitotoxicity; Purkinje cell; Signal transduction; Proto-oncogene; Granule cell; Stellate/basket cell; Undercutting the cortex (Chen, S. (795) 87)

Nitric oxide synthase; Hypoxia; Carotid body; Chemoreception; Rat (Kusakabe, T. (795) 292)

Glucose transporter; Brain; Glia; Microvessel; Immunoelectron microscopy (Yu, S. (797) 65)

Serotonin; Receptor; 5-HT_{2A}; Spinal cord; DRG (Maeshima, T. (797) 118)

Epibatidine; Fos protein; Nicotinic receptor; Brain; Rat (Watanabe, K.-i. (797) 135)

Kallikrein; Rat pineal gland; Immunoelectron microscopy; Vasoactive intestinal polypeptide; Perivascular space; ELISA; Circadian rhythm (Kudo, M. (797) 287)

Co-localisation; Anti-peptide antibody; Central nervous system; Retrograde tracer; Analgesia (Schindler, M. (798) 25)

Kainic acid; Brain microdialysis; Glutamate; GABA; In situ hybridization (Ding, R.-g. (800) 105)

Dorsal root ganglion; Trigeminal ganglion; Spinal cord; Pain (Takiguchi-Hayashi, K. (801) 9)

p75 neurotrophin receptor; Electron microscopy; Rat; Reticular thalamic nucleus (Oda, S. (801) 116)

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2-Deoxy-D-glucose; Mercaptoacetate; Neuropeptide Y; Hormone; In situ hybridization (Wang, J. (804) 7)

Amyloid precursor-like proteins; Amyloid precursor protein; Alzheimer's disease; In situ hybridization (McNamara, M.J. (804) 45)

Cytokine; Nodose ganglia; Immune-to-brain communication; Autonomic; Immediate-early gene (Goehler, L.E. (804) 306)

Hypoxia; Glomus cell; Neuropeptide Y; Tyrosine hydroxylase; Electron microscopy (Kameda, Y. (805) 191)

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Chronic hypoxia; Carotid body; Regulatory neuropeptide; Rat (Kusakabe, T. (806) 165)

Subcutaneous bee venom injection; Persistent pain; Central change; c-Fos expression; Dorsal horn; Morphine; Rat (Luo, C. (806) 175)

Glycine; Monoclonal antibody; Brain neuron (Fujiwara, K. (806) 210)

D-aspartic acid; D-amino acid; Neuron; Central nervous system; Neurogenesis (Sakai, K. (808) 65)

Calcium-binding protein; Neurocalcin; Muscle spindle; Golgi tendon organ; Motor endplate (Iino, S. (808) 294)

Amacrine cell; Horizontal cell; Müller glia; Teleost (Ekström, P. (812) 179)

Stereology; GABA; Hippocampus; Mouse (Jinno, S. (814) 55)

Immunolesion
192 IgG-saporin; Acetylcholinesterase; Choline acetyltransferase; Cholinergic basal forebrain neuron; Nerve growth factor; Regeneration (Gu, Z. (801) 190)

Immunophilin
Axotomy; FKPB; MAP kinase phosphatase; Regeneration (Winter, Ch. (801) 198)

Immunoreactive substance P
Intraspinal release; *S*-flurbiprofen; *R*-flurbiprofen; Inflammation; Non-steroidal anti-inflammatory drug (Schaible, H.-G. (798) 287)

Immunoreactivity
Rat C_6 glioma cell; Serum deprivation; Steroid 5α-reductase; Subcellular distribution (Tsuruo, Y. (801) 130)

Immuno-SEM
ICAM-1; Choroid plexus; Arachnoid membrane; Dural sinus (Endo, H. (793) 297)

Immunostaining
Brain capillary; Chronic nicotine; Local cerebral glucose utilization; Autoradiography (Duelli, R. (782) 36)

Immunotoxin
192-IgG-saporin; Cingulate cortex; Hippocampus; Radial-arm maze; Working memory; Spatial memory (Dougherty, K.D. (810) 59)

Immunotoxin lesion
Neuropeptide Y; Somatostatin; Cholinergic basal forebrain; Cortex; Rat; Alzheimer's disease (Zhang, Z.-J. (800) 198)

Impoverished environment
Hippocampus; Microdialysis; Circadian rhythm; Stress; Behavior (Mitsushima, D. (805) 207)

Imprinting
Long term potentiation; Immediate early gene; Slice; Passive avoidance; Learning (Yanagihara, S. (779) 240)

IGF-II; *H19*; CNS; Methylation (Zhan, S. (792) 283)

Insulin-like growth factor-II; H19; Biallelic; Development (Pham, N.V. (810) 1)

Improgan
Antinociception; Tolerance (Bannoura, M.D. (814) 218)

Inbred mice
Radial-arm maze; BXSB; C57BL/6; NZB; Working memory; Reference memory; Spatial; Learning; Memory load; Win-shift (Hyde, L.A. (785) 236)

Inbred rodents
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Individual differences
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Indoleamine
Wild mouse; Deermouse; Photoperiod; Cartography; Neuroendocrine; Hypothalamus (Phelix, C.F. (808) 197)

Indomethacin
L-NAME; Losartan; Prazosin; Prostaglandin; Blood pressure (Liu, H. (785) 317)

Oxyhemoglobin; Subarachnoid hemorrhage; Cyclooxygenase; Acetylcholine; Histamine; Cyclooxygenase metabolite; Basilar artery (Tran Dinh, Y.-R. (790) 91)

Transient forebrain ischemia; Mechanism; Apoptosis; Cyclooxygenase (Kondo, F. (791) 352)

Kainate; α-Amino-3-hydroxy-5-methyl-4-isoxazolepropionate; MK-801; 6,7-Dinitroquinoxaline-2,3-dione; Temperature (Yanase, T. (798) 304)

Inducible nitric oxide
FITC-dextran; Cerebral venule; Pial arteriole; Aminoguanidine; Brain; Rat (Mayhan, W.G. (792) 353)

Inducible nitric oxide synthase
Nitric oxide; Rat; Stroke; Middle cerebral artery (Zhang, F. (802) 104)

Tetrahydrobiopterin; Nitric oxide; GTP-cyclohyrolase (Barker, J.E. (804) 1)

Inducible transcription factor
Digoxigenin; Immediate early gene; In situ hybridization (Beer, J. (794) 255)

Induction
NADPH-diaphorase; NOS; PAG; Nociception; Rat (Rodella, L. (793) 333)

Inert gas
Anesthesia; Inert gas narcosis; Lipid theory; Protein theory (Abraini, J.H. (808) 300)

Inert gas narcosis
Anesthesia; Inert gas; Lipid theory; Protein theory (Abraini, J.H. (808) 300)

Inescapable shock
Learned helplessness; Dorsal raphe nucleus; 5-HT; 5-HIAA; In vivo microdialysis (Maswood, S. (783) 115)

Learned helplessness; Stressor controllability; 5-HT; 5-HIAA; In vivo microdialysis; Hippocampus; Periaqueductal gray (Amat, J. (797) 12)

Learned helplessness; Stressor controllability; 5-HT; 5-HIAA; In vivo microdialysis; Amygdala (Amat, J. (812) 113)

Infarct extension
[^{3}H]DAMGO; [^{3}H]DADLE; [^{3}H]U69,593; Opioidergic system; Penumbra (Boutin, H. (787) 237)

Infarct tolerance
Ischemia; Platelet-derived growth factor (Sakata, M. (784) 250)

Infarct volume
Topiramate; Antiepileptic agent; Focal cerebral ischemia; Neuroprotection; Rat (Yang, Y. (804) 169)

Inferior alveolar nerve
Regeneration; Periodontal ligament; Growth-associated protein 43; Ruffini ending; Terminal Schwann cell; Nerve injury (Youn, S.H. (787) 41)

Neuroma; Neuropeptide; Neuropathic pain; Ferret (Long, A. (791) 263)

Digastric reflex; Motor control; Mastication; Freely behaving rabbit (Yamamura, K. (796) 257)

Calretinin; Regeneration; Ruffini ending; Mechanoreceptor; Periodontal ligament; Rat (Hiroshima, K. (807) 218)

Inferior colliculus
Audiogenic seizures; Neuron; Ethanol withdrawal; Convulsion (Chakravarty, D.N. (783) 102)

Superior colliculus; Ageing; Auditory; Sound localization (Ingham, N.J. (788) 60)

Inferior olivary nucleus
Ca^{2+}/calmodulin-dependent protein kinase II; Substantia nigra; Red nucleus; Cochlear nucleus; Pontine nucleus (Ochiishi, T. (790) 129)

Inferior parietal lobule
Macaque monkey; Anterograde and retrograde tracing; Visual cortex; Superior temporal sulcus (Maioli, M.G. (789) 118)

Inflammation
Primary afferent; Pain; Spinal dorsal horn; Image analysis (Polgár, E. (786) 248)

Glutamate; Aspartate; Formalin test; Periphery; Pain (Omote, K. (787) 161)

Trigeminal nucleus; Trigeminal nucleus, spinal; Neuropeptide (Roche, A.K. (791) 283)

Carrageenin; Central sensitization; Rat; Paw pressure; Lidocaine (Kayser, V. (794) 19)

AIDS dementia complex; Tumor necrosis factor-α; Antioxidant; Apoptosis; Memory impairment (Bjugstad, K.B. (795) 349)

Allodynia; Capsaicin; Hyperalgesia; Pain; Tactile perception; Touch; Vibration (Kauppila, T. (797) 361)

Immunoreactive substance P; Intraspinal release; *S*-flurbiprofen; *R*-flurbiprofen; Nonsteroidal anti-inflammatory drug (Schaible, H.-G. (798) 287)

Sodium channel augmentation; Pain; Dorsal root ganglion (Gould III, H.J. (802) 69)

Aldose reductase; Nerve growth factor; Neurotrophin-3; Oxidative stress; Substance P; *trkA* (Fernyhough, P. (802) 247)

Mycoplasma fermentans; Astrocyte; MfGL-II; Choline-containing-glycolipid; Nitric oxide; Prostaglandin E_2; Protein kinase C; Lactate production (Ben-Menachem, G. (803) 34)

Tissue culture; ELISA; Alzheimer's disease; Gene expression (Walker, D.G. (809) 31)

Pain; Taste; Sensory neuron; Ion channel; Irritation (Liu, L. (809) 238)

Monoamine; Noradrenaline; Serotonin; Formalin; Pain; Pain modulation (Omote, K. (814) 194)

Infraorbital nerve
Acute plasticity; Receptive field; Trigeminal; Subnucleus interpolaris; Extracellular recording (Klein, B.G. (779) 136)

Inhibition
Nitric oxide synthase; Enzyme activity; Methylmercuric chloride; Mercuric chloride; Thiol compounds (Shinyashiki, M. (798) 147)

Epilepsy; Hippocampus; Seizure; Silent period; Temporal lobe (Mangan, P.S. (799) 183)

Parabrachial nucleus; Brain slice; Sensory processing; Synaptic processing (Kobashi, M. (799) 323)

Olfactory cortex; Epilepsy; Seizure; Kindling (Löscher, W. (800) 21)

Dentate gyrus; APTRA; Ischemia; Hippocampus; Chelator (Spigelman, I. (810) 269)

Inhibitor of cGMP generation, LY-83583
Molluscan photoreceptors; Phototransduction of invertebrates; cGMP-activated K^+ conductance; Light-activated guanylate cyclase (Nishi, T. (809) 325)

Inhibitory amino acid
In vitro study; Excitatory amino acid; Spinal rhythmic activity (Bonnot, A. (793) 136)

Inhibitory avoidance
Amygdala; Nucleus tractus solitarius; Memory; Bombesin; Reversible inactivation (Rashidy-Pour, A. (814) 127)

Inhibitory feed-back mechanism
C-fibre; Flexor reflex; Rostral ventromedial medulla (RVM); Wind-up; Spino-bulbo-spinal (Gozariu, M. (792) 168)

Inhibitory interneuron
AMPA receptor; EPSC; Neocortex (Zhou, F.-M. (780) 166)

Inhibitory neurotransmitter
Trigeminal nerve; Nociception; Lamina II; GABA; Glycine; Colocalization (Dumba, J.S. (806) 16)

Inhibitory transmitter
Mushroom body; Associative memory; Insect; Brain; GABA; Immunocytochemistry (Yamazaki, Y. (788) 80)

Injury of central nervous system
Compression; Rat astrocyte RCR-1 cell; Proliferation; Signaling pathway; Tyrosine kinase (Oishi, Y. (781) 159)

Innervation
Neural transplants; Substantia nigra; Parkinson's disease; Striatonigral pathway; Striatum (Sortwell, C.E. (791) 117)

Inosine
Guinea pig; Rat; Microwave fixation; Complete brain ischemia; Adenosine; Hypoxanthine; Adenosine deaminase (Kobayashi, T. (787) 211)

Brain slice; Cerebellum; Superior colliculus; Hippocampus; Anoxia; Adenosine; Hypoxanthine; ATP (Yamada, T. (787) 220)

Inositol 1,3,4,5-tetrakisphosphate
Autoradiography; Inositol 1,4,5-trisphosphate; Protein kinase C; Phorbol 12,13-dibutyrate; Human brain; Alzheimer's disease; Neurofibrillary tangles; Staging; Hippocampus (Kurumatani, T. (796) 209)

Inositol 1,4,5-trisphosphate
Autoradiography; Inositol 1,3,4,5-tetrakisphosphate; Protein kinase C; Phorbol 12,13-dibutyrate; Human brain; Alzheimer's disease; Neurofibrillary tangles; Staging; Hippocampus (Kurumatani, T. (796) 209)

Inositol trisphosphate
Brain injury; Fluid percussion; Phospholipase Cγ; Phosphatidylinositol bisphosphate; Diacylglycerol (Carman, H.M. (808) 116)

Inositol uptake
Lithium; *Myo*-inositol; Mouse astrocytes (Wolfson, M. (787) 34)

Inovan
K-NPPase cytochemistry; Catecholamine; Choroid plexus; Dopamine; Na–K ATPase (Kanoh, N. (787) 154)

Input resistance
Spreading depression; Hypoxia; Anoxia; Glutamate pharmacology; Intrinsic optical signal (Müller, M. (812) 1)

Insect
Melatonin; Serotonin *N*-acetyltransferase; Circadian rhythm; Development; Egg; Cricket; *Gryllus bimaculatus* (Itoh, M.T. (781) 91)

Angiotensin I-converting enzyme; Neurotransmitter; Neuropeptide metabolism; Neuropeptide processing; FXPRLamide; Locustamyotropin; Pyrokinin; Pheromone biosynthesis activating neuropeptide (Schoofs, L. (785) 215)

Mushroom body; Associative memory; Brain; GABA; Inhibitory transmitter; Immunocytochemistry (Yamazaki, Y. (788) 80)

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Circadian clock; Arylalkylamine *N*-acetyltransferase; Egg; Cricket; *Gryllus bimaculatus* (Itoh, M.T. (799) 172)

Insect olfactory system
Glomeruli; Activity mapping; Odor representation; Autoradiography (Distler, P.G. (805) 263)

In situ hybridization
Neuronal cell death; Nerve transection; Calcium binding protein; Rat; Immunohistochemistry (Dassesse, D. (786) 181)

Receptor autoradiography; Xanthine; Striatum; Cerebellum; Dopamine (Fredholm, B.B. (791) 177)

D_3 dopamine receptor; mRNA; Human brain (Suzuki, M. (779) 58)

$GABA_A$ receptor; Sexual development; Hypothalamus; Immunohistochemistry (Jung, H. (780) 218)

Corticosteroid receptor mRNA; Adrenal gland; Cortisol; HPA axis; Corticosterone (Lance, S.J. (780) 342)

GAP-43; Cerebellum; GABA; Glutamate; Cerebellar culture; Granule cell; Northern hybridization; mRNA; Development (Console-Bram, L.M. (783) 316)

Heparin-binding EGF-like growth factor (HB-EGF); Immunohistochemistry; Rat brain; Neuron (Hayase, Y. (784) 163)

Acetylcholinesterase; Butyrylcholinesterase; Dorsal root ganglion; Sensory nervous system; Neural development; Histochemistry (Koenigsberger, C. (787) 248)

Type VII adenylyl cyclase; Immunocytochemistry; Rat (Mons, N. (788) 251)

Amygdala; Central amygdala nucleus; Corticotropin-releasing hormone; mRNA; Neuropeptide; Paraventricular nucleus; Stress (Hsu, D.T. (788) 305)

Fos; Hypovolemia; NADPH diaphorase; Nitric oxide synthase; Paraventricular nucleus; Polyethylene glycol; Supraoptic nucleus (Ueta, Y. (790) 25)

Corneal epithelium; Limbal epithelium; Conjunctival epithelium; Opioid; [Met^5]-enkephalin; Preproenkephalin; Eye; Cell renewal mRNA (Zagon, I.S. (792) 72)

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Pentylenetetrazole kindling; c-fos; Opioid receptor effect; Endogenous opioid peptide (Erdtmann-Vourliotis, M. (792) 299)

Alcohol; Opioid; Selectively bred rat lines; Enkephalin; Preproenkephalin mRNA; Nucleus accumbens (Li, X.-W. (794) 35)

Digoxigenin; Inducible transcription factor; Immediate early gene (Beer, J. (794) 255)

Methamphetamine; Behavioral sensitization; Activity-regulated cytoskeleton-associated protein; SCH23390; MK-801 (Kodama, M. (796) 273)

Immediate early gene; c-*fos*; c-*jun*; Traumatic brain injury; Messenger RNA (Katano, H. (800) 69)

Kainic acid; Brain microdialysis; Glutamate; GABA; Immunohistochemistry (Ding, R.-g. (800) 105)

Amyloid; Tangle; Neurodegeneration; Astrocyte; Membrane protein; Immunohistochemistry (Takami, K. (802) 89)

2-Deoxy-D-glucose; Mercaptoacetate; Neuropeptide Y; Immunohistochemistry; Hormone (Wang, J. (804) 7)

Amyloid precursor-like proteins; Amyloid precursor protein; Alzheimer's disease; Immunohistochemistry (McNamara, M.J. (804) 45)

IGF-I; Insulin-like growth factor I; Brain aging; Dot blot (Niblock, M.M. (804) 79)

Limbic seizure; Gene expression; Neuronal injury (Hashimoto, K. (804) 212)

Choline acetyltransferase; Brain; Human (Kasashima, S. (806) 8)

Fluoro-gold; Iontophoresis; Fluorescent histochemistry; Tyrosine hydroxylase; mRNA (Cheung, S. (808) 174)

Hippocampus; Subiculum; Extracellular matrix; Plasticity; Gene expression (Hoffman, K.B. (812) 209)

Neuropeptide Y; Intergeniculate leaflet; Photoperiod; Syrian hamster (Jacob, N. (813) 160)

Kainic acid; Tanycyte; Astrocyte; Immunocytochemistry; c-*fos* (Eyigor, O. (814) 231)

In situ hybridization histochemistry
Reinforcement; Preprodynorphin; Preproenkephalin (Cowen, M.S. (796) 323)

mPFC lesions; Basal ganglia; D2; D1; Enkephalin; GAD65; Substance P (Baca, S.M. (797) 55)

Suprachiasmatic nuclei; Circadian rhythm; Adenylyl cyclase; Cyclic AMP (Cagampang, F.R.A. (810) 279)

Pituitary adenylate cyclase-activating polypeptide receptor; PACAP; PAC_1; Suprachiasmatic nuclei; Supraoptic nuclei; Circadian rhythm (Cagampang, F.R.A. (813) 218)

In situ nick translation
Seizure; Kainate; Status epilepticus; Transgenic; Apoptosis; Neuronal injury; Heat shock protein; Neuronal stress (Hu, R.Q. (810) 229)

In situ PCR
Gene transfer; β-Galactosidase; Rat brain; Polymerase chain reaction; *lac* Z gene; Herpes simplex virus; Digoxigenin (Yin, J. (783) 347)

Inspiratory neuron
Spontaneous augmented breath; Excitatory amino acid; NMDA; AP-5; Non-NMDA; CNQX; Iontophoresis (Takeda, M. (781) 194)

Insular cortex
Long-term potentiation; NMDA receptor; Basolateral amygdaloid nucleus; CPP; MK-801 (Escobar, M.L. (779) 314)

Taste; Visceral; Tail pinch; Pharyngolarynx (Hanamori, T. (785) 97)

Central amygdaloid nucleus; Lateral bed nucleus of the stria terminalis; Thalamic paraventricular nucleus; Extracellular recording; Electrical stimulation (Veinante, P. (794) 188)

Baroreceptor-related neuron; Extracellular recording; Monkey (Zhang, Z.-H. (796) 303)

Central regulation of salivation; Salivary gland; Viral tracing; Organum vasculosum of the lamina terminalis; Subfornical organ; Median preoptic nucleus; Preoptic area (Hübschle, T. (806) 219)

NMDA receptor; Long-term potentiation; Conditioned taste aversion; CPP; Basolateral amygdaloid nucleus (Escobar, M.L. (812) 246)

Insular lateralization
Blood pressure; Heart rate; Forebrain (Zhang, Z.-H. (813) 73)

Insulin
Feeding; Amygdala; Acetylcholine; Microdialysis; Hypoglycemia; Glucose; Rat (Hajnal, A. (785) 41)

Glucose; *db / db* mouse; Cerebellum; Granule cell; Exercise (Vannucci, S.J. (797) 1)

Diabetes; Hippocampus; Long-term potentiation; Learning; Water maze (Biessels, G.-J. (800) 125)

Hypothalamus; Arcuate nucleus; Paraventricular nucleus; Adiposity; Eating behavior (Wang, J. (802) 75)

Neuron cell culture; MAPK; Neurofilament; Isoproterenol; PD98059 (Schechter, R. (808) 270)

VIP; 2DG; Glucose; Glucagon; Antagonist (Chun, S.-J. (809) 165)

Insulin-like growth factor I
IGF-I; Brain aging; In situ hybridization; Dot blot (Niblock, M.M. (804) 79)

Insulin-like growth factor-II
Imprinting; H19; Biallelic; Development (Pham, N.V. (810) 1)

Integrin
Synapse; Dendrite; Glia; Brain; Distribution (Nishimura, S.L. (791) 271)

Interaction
Magnetoencephalography; Somatosensory cortex; Muscle contraction (Forss, N. (781) 259)

Intercellular communication
Astrocyte; Calcium wave; Adrenergic receptor; Primary culture; Imaging (Muyderman, H. (793) 127)

Intercellular coupling
Carotid body; Glomus cells; Hypoxia; Acidity; cAMP; Voltage clamping; Microelectrodes (Abudara, V. (792) 114)

Interferon-γ (IFN-γ)
β-amyloid (Aβ); Alzheimer's disease (AD); Cytokine; CD40; Interleukin-1β (IL-1β) (Suo, Z. (807) 110)

Intergeniculate leaflet
Circadian rhythm; Suprachiasmatic nucleus; Phase resetting; Tachykinin; NK_1 receptor (Challet, E. (800) 32)

Neuropeptide Y; In situ hybridization; Photoperiod; Syrian hamster (Jacob, N. (813) 160)

Interhemispheric asymmetry
EEG spectra; Physostigmine; Scopolamine (Vorobyov, V.V. (794) 299)

Interictal activity
Epilepsy; Afterdischarge; Ictal activity; T-type calcium channel; Hippocampal slice (Higashima, M. (781) 129)

Interictal behavior
Seizure pattern; Ictal behavior; Cortical stimulation; Kindling; Electroconvulsive shock (Della Paschoa, O.E. (814) 199)

Interictal spike
MK-801; Pilocarpine; Epileptogenesis; NMDA; Epilepsy; Decreased cell number (Rice, A.C. (782) 240)

Interleukin
Tumor necrosis factor; Leptin; Neuropeptide Y; Opioid; Glucocorticoid; Corticotropin; Endotoxin; Nervous system; Cerebellum; Hippocampus; Hypothalamus; Feeding; Food intake; RNase protection; Competitive RT–PCR (Gayle, D. (795) 77)

Interleukin-1
Cytokine; Interleukin-2; Interleukin-6; Intracranial self stimulation; Reward; Psychoneuroimmunology (Anisman, H. (779) 177)

Interleukin-2
Cytokine; Interleukin-1; Interleukin-6; Intracranial self stimulation; Reward; Psychoneuroimmunology (Anisman, H. (779) 177)

Interleukin-6
Cytokine; Interleukin-1; Interleukin-2; Intracranial self stimulation; Reward; Psychoneuroimmunology (Anisman, H. (779) 177)

Alzheimer's disease; Cerebrospinal fluid; Soluble interleukin-6 receptor; Family history; ELISA (Hampel, H. (780) 356)

Interleukin-1
Allodynia; Hyperalgesia; Chronic constriction injury; Tumor-necrosis-factor; Wallerian degeneration (Sommer, C. (784) 154)

Beta amyloid; Astrocyte; Nitric oxide synthase; Alzheimer's disease (Hu, J. (785) 195)

Interleukin-12
Microglia; Astrocyte; Glia; Cytokine; Helper T cell (Suzumura, A. (787) 139)

Interleukin-6
Ciliary neurotrophic factor; Leukemia inhibitory factor; Receptor; Nerve injury; mRNA expression (Ito, Y. (793) 321)

Interleukin-1
Fever mechanism; Interleukin-6; Interleukin-1 receptor antagonist; Blood–brain barrier (Akarsu, E.S. (803) 137)

Interleukin-6
Fever mechanism; Interleukin-1; Interleukin-1 receptor antagonist; Blood–brain barrier (Akarsu, E.S. (803) 137)

Interleukin-1
Interleukin-2; Interleukin-6; Exploration; Attention; Schizophrenia (Zalcman, S. (811) 111)

Interleukin-2
Interleukin-1; Interleukin-6; Exploration; Attention; Schizophrenia (Zalcman, S. (811) 111)

Interleukin-6
Interleukin-1; Interleukin-2; Exploration; Attention; Schizophrenia (Zalcman, S. (811) 111)

Interleukin-1β
Nitric oxide; Paraventricular nucleus; Abdominal vagal afferent nerve; Microdialysis (Ishizuka, Y. (789) 157)

Aggressive behavior; Non-social behavior; Body temperature; Corticosterone; Mouse (Cirulli, F. (791) 308)

Interleukin-1β (IL-1β)
β-amyloid (Aβ); Alzheimer's disease (AD); Cytokine; CD40; Interferon-γ (IFN-γ) (Suo, Z. (807) 110)

Interleukin-1 receptor antagonist
Fever mechanism; Interleukin-6; Interleukin-1; Blood–brain barrier (Akarsu, E.S. (803) 137)

Intermediate cerebellum
Classical conditioning; Eyeblink; Protein synthesis; Interposed nucleus; Rabbit (Bracha, V. (788) 169)

Intermediate filaments
Peripherin; Type II neurons; Outer hair cells; Cochlea (Hafidi, A. (805) 181)

Interneuron
Amygdaloid complex; Calcium-binding protein; Electron microscopy (Sorvari, H. (783) 355)

GAD; Drug addiction; Extended amygdala (Morales, M. (798) 333)

Blink reflex; DNIC; Convergence; Trigeminus; Brainstem (Ellrich, J. (803) 161)

Interposed nucleus
Classical conditioning; Eyeblink; Protein synthesis; Intermediate cerebellum; Rabbit (Bracha, V. (788) 169)

Intracardiac ganglia
Baroreceptor; Chemoreceptor; Heart; Vagus nerve (Blinder, K.J. (785) 143)

Intracavernous pressure
Hippocampal EEG; Spectral analysis; Penile erection; Papaverine; Negative feedback inhibition; Rat (Chang, A.Y.W. (788) 160)

Intracellular Ca^{2+}
Membrane depolarization; Hippocampal slices; Intracellular pH; Glycolysis; Na^+–K^+ ATPase (Zhan, R.-Z. (780) 86)

Chromaffin cell; Exocytosis; $I_{K(Ca)}$; Bradykinin; Caffeine (Kim, S.J. (799) 197)

Opioid; Ca^{2+} store; DADLE; IP_3; δ receptor; Kinase (Yoon, S.H. (802) 9)

Intracellular calcium
Carotid body; Dopamine; Perfusion; Hypoxia; K^+–O_2 current (Roy, A. (785) 228)

Ethanol; CNS neuron; Development; Glutamate receptor (Gruol, D.L. (793) 12)

Rat; Adrenal chromaffin cell; Catecholamine release; cAMP (Anderova, M. (809) 97)

BAPTA; NMDA; Hippocampal dentate granule cell; Epilepsy patch clamp recording; Visualization (Isokawa, M. (810) 241)

Intracellular calcium store
Pyramidal neocortical neuron; Rat brain slice; Purinoreceptor; Plasmalemmal channel (Lalo, U. (799) 285)

Intracellular Ca^{2+} store
Carotid body; Ca^{2+} channel-blocker; Cytochrome a_3^{2+}; Metabolic inhibition; O_2 chemoreception model (Mokashi, A. (803) 194)

Intracellular Cl^- concentration
Ammonia; Cl^-/HCO_3^- exchanger; Protein kinase C (Irie, T. (806) 246)

Intracellular pH
Aging; Brain slice; Extracellular pH; Hippocampus; Intrinsic buffering power; Ion transport; pH Regulation (Roberts Jr., E.L. (779) 271)

Membrane depolarization; Hippocampal slices; Intracellular Ca^{2+}; Glycolysis; Na^+–K^+ ATPase (Zhan, R.-Z. (780) 86)

Neuronal excitability; Epilepsy; Glutamate; GABA; HEPES; Hippocampal slice (Bonnet, U. (796) 161)

Astrocyte; SNAFL-1; Confocal microscopy; Acidosis; Nigericin (Masuda, A. (807) 70)

Intracellular recording
Lateral septum; Theta rhythm; In vivo; Hippocampal rhythm (Pedemonte, M. (800) 145)

Ethanol; Somatosensory cortex; Pyramidal neuron; Sensory processing; Membrane property (Sessler, F.M. (804) 266)

Intracellular signaling
Sympathetic ganglion; Axotomy; LIF; STAT; NGF (Rajan, P. (802) 198)

Intracellular sodium
Carotid body; Glomus cell; Voltage clamp; Hypoxia; Cobalt; Barium; TTX (Jiang, R.-G. (797) 197)

Intracereboventricular infusion
Feeding behavior; Histamine; H_1 receptor; H_2 receptor; H_3 receptor; Urine excretion; Water intake (Lecklin, A. (793) 279)

Intracerebral dialysis
NMDA; 5-HT; Raphe; Frontal cortex; WAY-100635 (Pallotta, M. (783) 173)

Intracerebral hemorrhage
Free radical; Magnetic resonance imaging; Animal behavior (Peeling, J. (795) 63)

Intracerebral injection
Temporal lobe epilepsy; NADPH diaphorase; Somatostatin (Miettinen, R. (813) 9)

Monkey; Bicuculline; Muscimol; Globus pallidus internalis; Substantia nigra pars reticulata (Burbaud, P. (780) 102)

Locus coeruleus; Opioid withdrawal; Opiate withdrawal; Cerebral glucose metabolism; Central amygdala; Opioid abstinence; Rat; Methylnaloxonium (Kimes, A.S. (814) 1)

Intracerebral transplantation
Oxidative stress; PBN; Lazaroid; Culture; Parkinson's disease (Karlsson, J. (805) 155)

Intracerebroventricular
Arterial blood pressure; Heart rate; α-Adrenoceptor; H_2-histamine receptor; 5-HT_{1A} receptor; Imidazoline receptor (Ally, A. (810) 153)

Intracerebroventricular injection
Parafascicular neuron; Locus coeruleus; Nociceptive modulation; Yohimbine; Prazosin; Intrathecal injection (Zhang, C. (784) 116)

Xenin; Hypothalamic injection; Feeding behavior; Satiety; Food intake (Alexiou, Ch. (800) 294)

Intracerebroventricular renin
Fos; Egr-1; Captopril; SFO; AT_1 and AT_2 receptors (Xu, Z. (782) 24)

Intracranial self stimulation
Cytokine; Interleukin-1; Interleukin-2; Interleukin-6; Reward; Psychoneuroimmunology (Anisman, H. (779) 177)

Parafascicular nucleus; Memory consolidation process; Two-way active avoidance; Learning and retention; Lateral hypothalamus (Massanés-Rotger, E. (808) 220)

Intraepidermal innervation
Demyelination; Medial plantar nerve; Pressure neuropathy; Renaut body; Tactile allodynia; Tactile hyperesthesia; Von Frey filament; Wallerian degeneration (Mizisin, A.P. (788) 13)

Intraluminal occluding thread
Middle cerebral artery occlusion; Cerebral blood flow; Cerebral ischemia; Laser–Doppler flowmetry; Rat (Herz, R.C.G. (791) 223)

Intraocular pressure
Cell death; Hypertensive eyes; Retina; Retinal ganglion cells (Laquis, S. (784) 100)

Intraoral nerve
c-fos; Spinal trigeminal tract nucleus; Subnucleus oralis; Cutaneous nerve (Sugimoto, T. (783) 158)

Intrareticular circuit
Rostral ventrolateral medulla; Reticulospinal neuron; Sympathetic nervous system; Cardiovascular control; Anterograde/retrograde axonal tracer (Granata, A.R. (781) 329)

Intraspinal release
Immunoreactive substance P; *S*-flurbiprofen; *R*-flurbiprofen; Inflammation; Non-steroidal anti-inflammatory drug (Schaible, H.-G. (798) 287)

Intrathecal
Pain; Hyperalgesia; Mouse; Substance P; Substance P fragment (Goettl, V.M. (780) 80)

Intrathecal administration
Descending modulation; 5-HT_3 receptors; Micturition; Pudendal nerve; Segmental reflex (Espey, M.J. (798) 101)

Parafascicular neuron; Nociceptive discharge; Norepinephrine; Serotonin; Aminophylline; Rat (Yang, S.-w. (798) 320)

Intrathecal drug application
Antinociception; Reactive red 2; P_2-Purinoceptor; ATP; Rat thalamus (Driessen, B. (796) 284)

Intrathecal injection
Parafascicular neuron; Locus coeruleus; Nociceptive modulation; Yohimbine; Prazosin; Intracerebroventricular injection (Zhang, C. (784) 116)

Intrathecal perfusion
Calcitonin gene-related peptide; Spinal release; Opioid receptor; Tonic inhibitory control; Polyarthritis (Ballet, S. (796) 198)

Intravenous morphine self-administration
Cannabinoid; Δ^9-Tetrahydrocannabinol; Perinatal exposure; Opiate; Opioid neuron; Opioid receptor; Reinforcement; Drug addiction (Vela, G. (807) 101)

Intrinsic buffering power
Aging; Brain slice; Extracellular pH; Hippocampus; Intracellular pH; Ion transport; pH Regulation (Roberts Jr., E.L. (779) 271)

Intrinsic cardiac ganglion
Catecholamine; Heart; Histochemistry; Immunocytochemistry; Synapse; Transganglionic transport; Ultrastructure; Vagus nerve (Massari, V.J. (802) 205)

Intrinsic optical signal
Spreading depression; Hypoxia; Anoxia; Input resistance; Glutamate pharmacology (Müller, M. (812) 1)

Intrinsic property
Taste; Parabrachial nucleus; Brain slice; Sensory processing (Kobashi, M. (781) 218)

In utero
Free radical; Hypoxia; Fetal brain; Peroxidation; Na^+,K^+-ATPase (Maulik, D. (798) 166)

Invertebrate ganglia
Anandamide; Anandamide amidase; Nitric oxide; MAFP (Stefano, G.B. (793) 341)

In vitro
Medial vestibular nucleus; Toluene; Vestibular system (Magnusson, A.K. (779) 334)

Apoptosis; Neurotrophin; TGF-β2; IGF; FGF (Oorschot, D.E. (789) 315)

Acidosis; Dimethyl sulfoxide; Astrocyte; Metallothionein; Acidosis; mRNA; Quercetin; Bioflavonoid (Conklin, D.R. (794) 304)

TGFβ; TGF-β; Autoradiography; Microglia; Proliferation (Jones, L.L. (795) 301)

Astrocyte; Cell swelling; Methylmercury; Sodium; Potassium; Aspartate; Amiloride (Aschner, M. (799) 207)

Brainstem; Newborn rat; Opioid; Respiration; Temperature; Age (Takita, K. (800) 308)

Epileptiform activity; Suppression; Low Ca^{2+}; Applied current; Hippocampus (Warren, R.J. (806) 186)

Astrocyte; Rat; Cell swelling; Methylmercury; Taurine; Myoinositol; Amiloride (Aschner, M. (811) 133)

Astrocytes; Rat; Cell swelling; Methylmercury; Na^+; K^+ (Aschner, M. (813) 254)

In vitro study
Excitatory amino acid; Inhibitory amino acid; Spinal rhythmic activity (Bonnot, A. (793) 136)

In vitro superfusion
Olfaction; Noradrenaline; Reuptake; Transporter; Memory/recognition (Shang, Y. (779) 119)

In vivo
Dentate gyrus; Long-term potentiation; LTP decay; Lead (Pb); Hippocampus; Rat; Neurotoxicity; Learning and memory (Gilbert, M.E. (789) 139)

Schizophrenia; 6-Hydroxydopamine; Mesocortical; Neurophysiology (Harden, D.G. (794) 96)

Ischemia; Electrophysiology; Hippocampus; CA3 pyramidal neuron; Dentate granule cell (Howard, E.M. (798) 109)

Lateral septum; Theta rhythm; Intracellular recording; Hippocampal rhythm (Pedemonte, M. (800) 145)

In vivo dialysis
Amphetamine; MDMA; Reserpine; Dopamine; Serotonin; Striatum; Vesicular storage (Sabol, K.E. (806) 69)

In vivo electrochemisty
Aging; Dopamine; Locomotion; Nigrostriatal; Mesolimbic (Hebert, M.A. (797) 42)

In vivo microdialysis
REM sleep; Atonia; Glutamate; Nucleus magnocellularis of medulla; Nucleus paramedianus of medulla; Pontine inhibitory area (Kodama, T. (780) 178)

Learned helplessness; Inescapable shock; Dorsal raphe nucleus; 5-HT; 5-HIAA (Maswood, S. (783) 115)

Depression-model rat; 3-Methoxy-4-hydroxyphenylethyleneglycol (MHPG); 3,4-Dihydroxy-phenylacetic acid (DOPAC); Reserpine (Yamashita, K. (785) 10)

Learned helplessness; Inescapable shock; Stressor controllability; 5-HT; 5-HIAA; Hippocampus; Periaqueductal gray (Amat, J. (797) 12)

Ibogaine; Noribogaine; 18-Methoxycoronaridine; Serotonin; Nucleus accumbens; Striatum; Rat (Wei, D. (800) 260)

Adenosine receptors; Dopamine release; Methamphetamine; Rat striatum (Golembiowska, K. (806) 202)

β-adrenergic receptor; HPLC; Memory modulation; Stress (Quirarte, G.L. (808) 134)

Dopamine; Neurotoxicity; Neuroprotection; Parkinson's disease (Opacka-Juffry, J. (810) 27)

Learned helplessness; Inescapable shock; Stressor controllability; 5-HT; 5-HIAA; Amygdala (Amat, J. (812) 113)

Rat; Open field; Exploration; Acetylcholine; Reinforcement; Learning; Novelty; Arousal; Attention; Aversion (Thiel, C.M. (812) 121)

In vivo NMR
Gene dosage; Glucose metabolism; Phosphofructokinase; Transgenic mouse (Peled-Kamar, M. (810) 138)

Iodophenpropit binding
Histamine H_3 receptor; Hippocampus; Cerebral cortex; Noradrenaline release; Rat (Alves-Rodrigues, A. (788) 179)

Ion channel
Glycine current; Freshly isolated neuron; Patch clamp; Strychnine; Picrotoxin (Ye, J.H. (796) 53)

Pain; Inflammation; Taste; Sensory neuron; Irritation (Liu, L. (809) 238)

Phosphorylation; Patch clamp; ATP (Ren, J. (811) 71)

Ionized calcium binding adapter molecule 1
Brain macrophage; ED1; MHC class II antigen; Motor neuron degeneration; Proliferating cell nuclear antigen; Retrograde change (Graeber, M.B. (813) 241)

Ionotropic receptor
Glutamatergic system; Neurotransmitter; Optic tectum; Visual pathway (Pires, R.S. (810) 283)

Iontophoresis
Spontaneous augmented breath; Inspiratory neuron; Excitatory amino acid; NMDA; AP-5; Non-NMDA; CNQX (Takeda, M. (781) 194)

Substantia gelatinosa; Alpha agonist; Antinociception; Neuron modality (Jones, S.L. (798) 55)

Fluoro-gold; Fluorescent histochemistry; Tyrosine hydroxylase; mRNA; In situ hybridization (Cheung, S. (808) 174)

Ketorolac; Analgesia; NMDA receptor; Rat (Sotgiu, M.L. (813) 223)

Ion transport
Aging; Brain slice; Extracellular pH; Hippocampus; Intracellular pH; Intrinsic buffering power; pH Regulation (Roberts Jr., E.L. (779) 271)

Aging; Brain slice; Dizocilpine; Hippocampus; Hypoxia; Potassium ion homeostasis (Roberts Jr., E.L. (791) 321)

Alcoholism; Brain; Choroid plexus (Javaheri, S. (812) 91)

IP_1
Vasopressin; Calcium; Cerebral cortex; Calcium channel; Learning and memory (Son, M.C. (793) 244)

1,4,5-IP_3
Adrenal chromaffin cell; Cytosolic Ca^{2+} concentration; Fura-2; Cd^{2+}; Co^{2+} (Yamagami, K. (798) 316)

IP_3
Opioid; Intracellular Ca^{2+}; Ca^{2+} store; DADLE; δ receptor; Kinase (Yoon, S.H. (802) 9)

IPSC
Noradrenaline; Supraoptic neuron; α_2-adrenoceptor (Wang, Y.-F. (807) 61)

Ipsilateral
Semitendinosus; Rectus femoris; Human; Contralateral (Misiaszek, J.E. (795) 25)

IPSP
Masseteric motoneuron; Trigeminal motor nucleus; HRP; EPSP; Dendritic arbor; Cat (Kamogawa, H. (785) 18)

Presubiculum; Parasubiculum; Entorhinal cortex (Funahashi, M. (787) 19)

Iris sphincter
Muscarinic acetylcholine receptor; Receptor subtype; Human pupil; Light reflex (Ishizaka, N. (787) 344)

Iron
Glia; Oxidative damage (Robb, S.J. (788) 125)

Alzheimer's disease; Metabolism; Oxidative stress (Smith, M.A. (788) 232)

Blood–brain barrier; Cerebrospinal fluid; Choroid plexus; Developing brain; Homeostasis; Transferrin receptor (Moos, T. (790) 115)

Amyloid; Reactive oxygen species; Transition metal; Aluminum (Bondy, S.C. (799) 91)

Manganese; Aconitase; Mitochondria; Respiratory chain; Parkinson's diseases (Zheng, W. (799) 334)

Neurotrophic factors; Ferritin; Transferrin; Transferrin receptor; Neuron (Dickinson, T.K. (801) 171)

Brain; Neonate; Transgenic; Mouse; Hypoxia–ischemia (Sheldon, R.A. (810) 114)

Iron-induced epilepsy
Chemiluminescence; MK-801; Oxidative change (Küçükkaya, B. (788) 133)

Iron regulatory protein
Bergmann glia; Purkinje cell; Immunohistochemistry; Chicken brain (Cho, S.S. (794) 174)

Irritable bowel syndrome
Barrington's nucleus; Pontine micturition center; Distal colon; Locus coeruleus; Transsynaptic tracing; Pseudorabies virus; Retrograde tracing (Pavcovich, L.A. (784) 355)

Irritation
Pain; Inflammation; Taste; Sensory neuron; Ion channel (Liu, L. (809) 238)

Ischemia
Chronic brain hypoperfusion; Dimethyl sulfoxide; Fructose 1,6-diphosphate; Memory (De la Torre, J.C. (779) 285)

DMXB; NMDA receptor; Neuroprotection; Nicotinic; Mecamylamine (Shimohama, S. (779) 359)

Tamoxifen; Anion channel; Chloride channel; Volume regulation; Cerebroprotection (Phillis, J.W. (780) 352)

CA1; CA3; Eliprodil; Hippocampus; Hypoxia; Neuronal death; Neuroprotection; *N*-Methyl-D-aspartate; NR2B; Stroke (Reyes, M. (782) 212)

Microsphere embolism; Noradrenaline release; Microdialysis; Synaptosomes; Synapsin I phosphorylation; Cerebral cortex (Hayashi, H. (783) 241)

Platelet-derived growth factor; Infarct tolerance (Sakata, M. (784) 250)

Middle cerebral artery occlusion; Estrogen; 17β-Estradiol; Ovariectomy; Sex-dependent mortality (Zhang, Y.-Q. (784) 321)

GAP-43; Human neocortex; Immunofluorescence; Confocal laser scanning microscopy (Akulinin, V.A. (784) 341)

Oxidative damage; Mitochondria; Spreading depression; Anoxic depolarization (Pérez-Pinzón, M.A. (786) 165)

Hyperglycemia; Pyruvate dehydrogenase; Energy metabolism (Katayama, Y. (788) 302)

NACP; NAC; Synuclein; Presynaptic protein; Hippocampus (Ishimaru, H. (788) 311)

Nerve growth factor (NGF); Delayed neuronal death; Hippocampus (Ishimaru, H. (789) 194)

Reperfusion; Heart; Afferent; Cardiac pain; Reflex; Autonomic (Gutterman, D.D. (790) 293)

Nicotinic acetylcholine receptor; Striatum; Aging; Polymerase chain reaction (Tohgi, H. (791) 186)

Hypoxia; Potassium; Field potentials (Schmidinger, A. (794) 28)

Adenosine outflow; Hippocampal slice; Excitatory postsynaptic potential (Latini, S. (794) 325)

Electrophysiology; Hippocampus; In vivo; CA3 pyramidal neuron; Dentate granule cell (Howard, E.M. (798) 109)

PNU-101017; Diazepam; Benzodiazepine receptor; Gerbil; Hippocampal CA_1 neuron (Hall, E.D. (798) 325)

Brain; Hepatocyte growth factor; Hepatocyte growth factor activator; Rat (Hayashi, T. (799) 311)

Propofol; Reperfusion; Oxidative stress; Glutathione; Lipid peroxidation (De La Cruz, J.P. (800) 136)

Astrocyte; Ependymal cell; Middle cerebral artery occlusion; Neuron; Tumor necrosis factor-alpha (Gong, C. (801) 1)

Transcription factor; Activator protein-1; Phosphorylation of CREB; Thalamus; Striatum (Kuramoto, N. (806) 152)

Spreading depression; BDNF; bFGF; Astrocyte; Preconditioning (Matsushima, K. (807) 47)

Taurine release; Hippocampal slice; Excitotoxicity; Release mechanism (Saransaari, P. (807) 118)

Cerebral cortex; Microsphere embolism; Na^+/K^+-ATPase; Noradrenaline uptake; Synaptosome (Hayashi, H. (808) 190)

Dentate gyrus; APTRA; Inhibition; Hippocampus; Chelator (Spigelman, I. (810) 269)

Cyclosporin A; Calcineurin; Mitochondria; Mitochondrial permeability transition; Neuroprotection (Uchino, H. (812) 216)

Angiogenesis; Astroglia; Hypoxia; Vascular endothelial growth factor (Sinor, A.D. (812) 289)

Stroke; Excitotoxicity; Neurodegeneration; Glutaminase; Delayed neuronal damage (Newcomb, R. (813) 103)

Ischemia–reperfusion
Cell culture; Cerebral endothelium; Oxygen free radical; Oxypurinol; Superoxide dismutase (Beetsch, J.W. (786) 89)

Ischemic brain injury
Global cerebral ischemia; Vascular anatomy; Mice (Murakami, K. (780) 304)

Ischemic depolarization
EEG burst suppression; Multiparametric brain monitoring; Cerebral ischemia; Mitochondrial redox state; Extracellular K^+; Cerebral blood flow (Zarchin, N. (780) 230)

Focal ischemia; Middle cerebral artery; Penumbra zone; Spreading depression; Cerebrolysin; MK-801; Rat (Koroleva, V.I. (786) 104)

Ischemic duration
PDH activity; Energy metabolite; Blood flow (Fukuchi, T. (792) 59)

Ischemic stress
Chemokines; NF-κB; Astrocytes; C6 glioma cells (Uehara, T. (790) 284)

Ischemic tolerance
Cerebral ischemia; Spreading depression; Temporary focal ischemia (Yanamoto, H. (784) 239)

Neuroprotection; Hypoxia; Hippocampal slice; Gerbil (Tokunaga, H. (784) 316)

Island of Calleja
NOS; cGMP; Nitric oxide; Diffusion; Co-localization (De Vente, J. (789) 175)

Islands of Calleja
Alkylating agent; D_2-like receptor; D_3 receptor; Dopamine; EEDQ; 7-OH-DPAT; Fluphenazine; Autoradiography; Accumbens (Yeghiayan, S.K. (792) 324)

Isolated brainstem–spinal cord preparation
Calcium; Magnesium; Control of breathing; Central chemosensitivity; Neonatal rat (Kuwana, S.-i. (786) 194)

Isoproterenol
Phenylephrine; Phentolamine; Metoprolol; Long-term potentiation; Hippocampus (Chaulk, P.C. (787) 59)

Insulin; Neuron cell culture; MAPK; Neurofilament; PD98059 (Schechter, R. (808) 270)

J

Jaw muscle
Neuromuscular plasticity; *Rana pipiens*; Retrograde tracer (Alley, K.E. (813) 187)

Jaw-opening reflex
Guinea pig; Tooth pulp; NK1 antagonist; Immunocytochemistry; Substance P; Primary sensory neuron (Alia, S. (787) 99)

Central α_2-adrenoceptor sensitivity; Chronic variable stress; Rat (García-Vallejo, P. (801) 72)

Antinociception; Ventrolateral orbital cortex; Periaqueductal gray; (Rat) (Zhang, S. (813) 359)

Jugular ganglion
μ-Opioid receptor; Substance P; Calcitonin gene-related peptide; Nitric oxide synthase; Nodose ganglion; Petrosal ganglion; Coexistence; Rat (Ding, Y.-Q. (792) 149)

Calcitonin gene-related peptide; NADPH-diaphorase; Nodose ganglion; Petrosal ganglion; Somatostatin; Substance P; Tyrosine hydroxylase (Ichikawa, H. (800) 312)

JunB
Opioid; c-Fos; Serotonin receptor (Frankel, P.S. (814) 186)

K

K^+
Astrocytes; Rat; Cell swelling; Methylmercury; Na^+; In vitro (Aschner, M. (813) 254)

Kainate
Glutamate; AMPA; Receptor; DBA mice; C57 mice; Seizure; Epilepsy (Kürschner, V.C. (780) 1)

Calpain; Hippocampus; Glutamate receptor; Seizure (Bi, X. (781) 355)

Frontal cortex; Striatum; AMPA; NMDA; Basal ganglia; Fos; Attention (Schuller, J.J. (788) 315)

α-Amino-3-hydroxy-5-methyl-4-isoxazolepropionate; MK-801; 6,7-Dinitroquinoxaline-2,3-dione; Indomethacin; Temperature (Yanase, T. (798) 304)

Excitotoxicity; Hippocampus; CGS21680; ZM241385; Adenosine; Purines; A2 receptors (Jones, P.A. (800) 328)

Motoneuron; Excitotoxicity; Astrocyte; Differentiation; Culture; Mouse (Vandenberghe, W. (807) 1)

Excitotoxicity; Glutamate; Calcium; Motoneuron (Terro, F. (809) 319)

Seizure; Hippocampus; Tolerance; Pentobarbital (Najm, I.M. (810) 72)

Seizure; Status epilepticus; Transgenic; In situ nick translation; Apoptosis; Neuronal injury; Heat shock protein; Neuronal stress (Hu, R.Q. (810) 229)

Kainate receptor
Neuromodulation; Neurosteroid; Progesterone; Cultured spinal neuron; Patch-clamp (Wu, F.-S. (779) 354)

Pregnenolone sulfate; AMPA receptor; NMDA receptor; Neurosteroid; Steroid (Yaghoubi, N. (803) 153)

Kainic acid
Neuropeptide Y; Microdialysis; Seizure; Rat; Dorsal hippocampus (Husum, H. (781) 351)

Cyclooxygenase; Lipoxygenase; Proenkephalin; Prodynorphin; Fra protein; Hippocampus (Kim, H.-C. (782) 337)

Glutamic acid; Receptor; Synapse; Mossy fiber; Hippocampus (Yamamoto, C. (783) 227)

Epilepsy; Seizure; Hippocampus; Granule cell; Cell proliferation (Gray, W.P. (790) 52)

Neurotrophin; Brain-derived neurotrophic factor; trkB receptor; Basal forebrain; Hippocampus; Degeneration (Venero, J.L. (790) 270)

Glucocorticoid; Superoxide dismutase; Catalase; Glutathione peroxidase; Hippocampus; Cortex; Liver (McIntosh, L.J. (791) 209)

Glucocorticoid; Superoxide dismutase; Catalase; Glutathione peroxidase; Hippocampus (McIntosh, L.J. (791) 215)

Zinc; Neurotoxicity; Epilepsy; Timm's staining; Hippocampus; Metal chelating agent (Lees, G.J. (799) 108)

Nitric oxide; Zinc; Timm's staining; TSQ fluorescence; Hippocampus; Metal chelating agent; Epilepsy (Cuajungco, M.P. (799) 118)

Brain microdialysis; Glutamate; GABA; In situ hybridization; Immunohistochemistry (Ding, R.-g. (800) 105)

Experimental epilepsy; Perirhinal cortex; Sensorimotor cortex; Secondary generalization (Imamura, S.-i. (800) 323)

Cortistatin; Somatostatin receptor; Neuroprotection; Excitotoxicity; Seizure; Epilepsy (Braun, H. (803) 54)

Tanycyte; Astrocyte; In situ hybridization; Immunocytochemistry; c-*fos* (Eyigor, O. (814) 231)

Kainic acid lesion: nucleus accumbens
Dopamine; MK801; NMDA (Yoshida, M. (786) 226)

Kaliuresis
Cadmium; Cadmium neurotoxicity; Brain angiotensin; Calcium channel; Losartan; Gadolinium; Natriuresis (Luz, C.P. (796) 265)

Kallikrein
Rat pineal gland; Immunohistochemistry; Immunoelectron microscopy; Vasoactive intestinal polypeptide; Perivascular space; ELISA; Circadian rhythm (Kudo, M. (797) 287)

Kaolin / carrageenan-induced inflammation
$GABA_A$ receptor; Bicuculline; Plasma extravasation; Evans Blue; Formalin-induced inflammation; Spinal cord (John, J.M. (794) 320)

Kappa-opioid
Dopamine release; NMDA; Cocaine; Ibogaine; Gender (Sershen, H. (801) 67)

K^+ channel
Ca^{2+} channel; Carotid body; Hypoxia; Chemotransduction; Arachidonic acid (Hatton, C.J. (787) 315)

K_{ATP} channel
Brain; Hypoxia; Purine; Pyrimidine; Diazoxide; Tolbutamide (Pissarek, M. (812) 164)

K^+-channel-opener
Lower urinary tract; Spinal cord; Immediate early gene; Nociception; Capsaicin (Yu, Y. (807) 11)

K^+ current
Parasympathetic neurons; Development; Shal (Dryer, L. (789) 162)

Adenosine receptor; Melanotroph (Mei, Y.A. (793) 271)

Hypoxia; Chronic hypoxia; Carotid body; Ca^{2+} current (Carpenter, E. (811) 79)

M-type K^+ current
Linopirdine; Acetylcholine; NG108-15 cell; Rat cerebral cortex (Noda, M. (794) 274)

K^+ depolarization
PC12 cell; Nerve growth factor; Calcium; Apoptosis (Dispersyn, G. (779) 350)

Ketamine
Glutamate; L-Arginine; Cultured neuron; Nitric oxide; MK-801 (Yamauchi, M. (780) 253)

Strychnine; Bicuculline; Convergent neuron; Dorsal horn; Noxious immersion; Paw; Rat (McGaraughty, S. (784) 63)

Schizophrenia; NMDA; Limbic system; Hippocampus; Prefrontal cortex; Cingulate cortex (Duncan, G.E. (787) 181)

Dynorphin; Spinal cord; mRNA; Halothane; Nitrous oxide (Tanimoto, M. (811) 88)

Schizophrenia; NMDA; Animal model; Clozapine; Haloperidol; Limbic system; Hippocampus (Duncan, G.E. (812) 65)

Ketanserin
VMN; DOI; TFMPP; Quipazine; Serotonin (Wolf, A. (779) 84)

Ketorolac
Analgesia; NMDA receptor; Iontophoresis; Rat (Sotgiu, M.L. (813) 223)

KG-1C
Adrenomedullin; $[Ca^{2+}]_i$; Calcitonin gene-related peptide; Dual signaling; Oligodendrocyte (Uezono, Y. (786) 230)

Kinase
Opioid; Intracellular Ca^{2+}; Ca^{2+} store; DADLE; IP_3; δ receptor (Yoon, S.H. (802) 9)

Kindled
Electroconvulsive shock seizure; mRNA; Muscarinic cholinergic receptor; Hippocampus (Mingo, N.S. (810) 9)

Kindling
Seizure; Temporal lobe epilepsy; Fear; Defensive behavior; Hippocampus; Caudate; Amygdala (Kalynchuk, L.E. (779) 149)

Mossy fiber sprouting; Synaptic reorganization; Amygdala; Dentate gyrus; Hippocampus; Seizure; Temporal lobe epilepsy (Armitage, L.L. (781) 37)

Ethanol; Withdrawal; Seizure; Adenosine; Mouse (Jarvis, M.F. (786) 80)

Anticonvulsant; Epileptogenesis; 2*R*,4*R*-APDC; Group II metabotropic glutamate receptor; Glutamate (Attwell, P.J.E. (787) 286)

Hyperexcitability; Rat; Hippocampus; Epilepsy (Elmér, E. (789) 111)

Seizure classification; Spontaneous seizure; Epilepsy; Perforant path; Dentate gyrus; Amygdala (Michael, M. (793) 197)

Olfactory cortex; Inhibition; Epilepsy; Seizure (Löscher, W. (800) 21)

Histamine; Histidine decarboxylase; Seizure susceptibility (Toyota, H. (802) 241)

Gliosis; Hippocampus; Hilus; Seizure; Plasticity; Dentate gyrus (Adams, B. (804) 331)

Presynaptic glutamate receptor; Group II metabotropic glutamate receptor; Glutamate release; Epileptogenesis; Seizure; DCG-IV; Lamotrigine (Attwell, P.J.E. (805) 138)

TRH; Protirelin; Epilepsy; Anticonvulsant; Drug delivery (Kubek, M.J. (809) 189)

Perirhinal cortex; Amygdala; Dorsal hippocampus; Fos protein; Epilepsy (Sato, T. (811) 122)

Seizure pattern; Ictal behavior; Interictal behavior; Cortical stimulation; Electroconvulsive shock (Della Paschoa, O.E. (814) 199)

Kinesthesia
Muscle afferent; Proprioception; Voluntary movement; Direction coding; Velocity coding (Ribot-Ciscar, E. (791) 167)

Knockout mice
Nociceptin receptor; Water-finding test; Spatial attention (latent learning); Dopamine content (Mamiya, T. (783) 236)

K-NPPase cytochemistry
Catecholamine; Choroid plexus; Inovan; Dopamine; Na–K ATPase (Kanoh, N. (787) 154)

K^+–O_2 current
Carotid body; Intracellular calcium; Dopamine; Perfusion; Hypoxia (Roy, A. (785) 228)

4-AP; $[Ca^{2+}]_i$; Glomus cell; Low $[Ca^{2+}]_o$ plus high $[Mg^{2+}]_o$; Membrane potential; Neurosecretion; TEA (Lahiri, S. (794) 162)

Kölliker–Fuse
Parabrachial; Solitarius; Trigeminal; Diving response; Sensory–autonomic integration (Dutschmann, M. (809) 221)

KOR-3
Orphanin FQ; Nociceptin; Analgesia; Antisense; Oligodeoxynucleotide (Rossi, G.C. (792) 327)

KOR-1 clone
2-deoxy-D-glucose; Feeding; Glucoprivation; MOR-1 clone; DOR-1 clone; KOR-3/ORL-1 clone (Burdick, K. (794) 359)

KOR-3/ORL-1 clone
2-deoxy-D-glucose; Feeding; Glucoprivation; MOR-1 clone; KOR-1 clone; DOR-1 clone (Burdick, K. (794) 359)

Kynurenic acid
Rat brain; Ammonia; Hyperammonemia; Excitotoxicity (Saran, T. (787) 348)

Kynurenine
Drug abuse; Excitatory amino acid; Monoamine; Ontogeny (Rassoulpour, A. (802) 111)

L

La^{3+}
Botulinum type-A toxin; Neuromuscular junction; Motor nerve sprouting; Synaptotagmin II; Exocytosis; α-Latrotoxin (Angaut-Petit, D. (797) 357)

Labyrinthectomy
Vestibular compensation; Protein kinase C; Cerebellum; Purkinje cell; Signal transduction protein (Balaban, C.D. (804) 253)

Lactate
Anoxic depolarization; Brain slice; Energy metabolism; Hydrogen ion concentration; Hypoxia; SNARF; Synaptic transmission (Roberts Jr., E.L. (783) 44)

Guinea pig; Hippocampal slice; Population spike; High energy phosphate; Glucose; Mannose; Fructose (Wada, H. (788) 144)

Fluid percussion brain injury; Free fatty acids; Rat (Dhillon, H.S. (804) 231)

Lactate production
Mycoplasma fermentans; Astrocyte; MfGL-II; Choline-containing-glycolipid; Nitric oxide; Prostaglandin E_2; Protein kinase C; Inflammation (Ben-Menachem, G. (803) 34)

Lactation
Oxytocin mRNA; Oxytocin hnRNA; Pregnancy (Douglas, A.J. (782) 167)

Suckling stimulation; Parturition; Maternal behavior; Fos (Lin, S.-H. (787) 226)

Dopamine; DOPAC; Prolactin; TIDA; PHDA; THDA neuron; Pituitary gland (Nagy, G.M. (790) 315)

Agonistic behavior; Female sexual behavior; Lordosis; Maternal behavior; Mesencephalon; Suckling (Lonstein, J.S. (804) 21)

cFos; NMDA receptor; Hippocampus; Suckling (Grove, K.L. (814) 157)

***lac* Z gene**
In situ PCR; Gene transfer; β-Galactosidase; Rat brain; Polymerase chain reaction; Herpes simplex virus; Digoxigenin (Yin, J. (783) 347)

Lambert–Eaton myasthenic syndrome treatment
Neuromuscular junction; 3,4-Diaminopyridine; Presynaptic current; Potassium current; Multiple sclerosis treatment; Motor nerve conduction (Miralles, F. (789) 239)

Lamina II
Trigeminal nerve; Nociception; GABA; Glycine; Inhibitory neurotransmitter; Colocalization (Dumba, J.S. (806) 16)

Laminin
Aβ42; Alzheimer's disease; Thioflavine-T fluorescence; Electron microscopy (Monji, A. (788) 187)

Laminin-2
dy^{2J}/dy^{2J}; Muscular dystrophy; Neuromuscular transmission; Neuromuscular junction (Edwards, J.P. (788) 262)

Laminin
Cerebellar culture; Granuloprival culture; Purkinje cell; Dendritic spine; Dendrite; Astrocyte; Neurite promoting factor; Synapse; Development; Regeneration (Seil, F.J. (795) 112)

Apolipoprotein E; Alzheimer's disease; Amyloid-β-protein; Thioflavine-T fluorescence; Electron microscopy (Monji, A. (796) 171)

Lamivudine
Zidovudine; Thymidine; Lipid solubility; Blood–brain barrier (Wu, D. (791) 313)

Lamotrigine
Epilepsy; Bipolar affective disorder; Hippocampus; Potassium current (Grunze, H. (791) 330)

Presynaptic glutamate receptor; Group II metabotropic glutamate receptor; Glutamate release; Kindling; Epileptogenesis; Seizure; DCG-IV (Attwell, P.J.E. (805) 138)

Lamprey
Retina; GABA; Centrifugal fiber; Ganglion cell; Development (Anadón, R. (782) 297)

Tectum; Superior colliculus; Tectoreticular; Geniculate; Reticular formation (Zompa, I.C. (802) 27)

Tectoreticular pathway; Superior colliculus; Reticular formation (Zompa, I.C. (804) 238)

Language
Auditory; Speech; Magnetoencephalography; Lateralization; Temporal processing; Cognitive neuroscience (Gage, N. (814) 236)

L-arginine
Tetrahydrobiopterin; Dopamine release; NO; NO synthase; Oxygen free radical (Liang, L.P. (800) 181)

Larynx
Vomiting; Swallowing; Upper airway; Pharynx; Superior laryngeal nerve; Glossopharyngeal nerve; Hypoglossal nerve (Umezaki, T. (781) 25)

Laser–Doppler
Whisker–Barrel; Functional hyperemia; Hypercapnia; Local cerebral blood flow (Gerrits, R.J. (783) 151)

C fiber; Neural control of skin blood flow; Pressure strain; Human (Fromy, B. (811) 166)

Laser–Doppler flowmetry
Middle cerebral artery occlusion; Intraluminal occluding thread; Cerebral blood flow; Cerebral ischemia; Rat (Herz, R.C.G. (791) 223)

Cerebral artery; Cerebral blood flow; Cerebral ischemia, focal; Rat (Herz, R.C.G. (793) 289)

Flow metabolic coupling; Somatosensory cortex (Detre, J.A. (796) 91)

Latency to peak
Acoustic startle; Airpuff startle; Cardiovascular response (Palmer, A.A. (787) 91)

Lateral bed nucleus of the stria terminalis
Central amygdaloid nucleus; Insular cortex; Thalamic paraventricular nucleus; Extracellular recording; Electrical stimulation (Veinante, P. (794) 188)

Lateral dorsal tegmentum
Brain stimulation reward; Medial forebrain bundle; Self-stimulation; Rate–frequency curve shift; Pedunculopontine tegmentum (Waraczynski, M. (800) 154)

Lateral hypothalamic area
Autonomic nervous system; Cardiac function; Defense reaction; Emotion; Fight-or-flight response; Paraventricular hypothalamic nucleus; Periaqueductal gray matter; Precommissural nucleus; Pseudorabies virus; Raphe magnus nucleus (Farkas, E. (792) 179)

Melanin-concentrating hormone; Zona incerta; Monkey brain; Neuropeptides; *Cebus apella* (Bittencourt, J.C. (804) 140)

Zona incerta; Medial septal nucleus; Nucleus of diagonal band; Spinal cord; True-blue; Diamidino yellow; Retrograde tracer; Anterograde tracer; Melanin-concentrating hormone; Neuropeptides (Bittencourt, J.C. (805) 1)

Lateral hypothalamus
Intracranial self-stimulation; Parafascicular nucleus; Memory consolidation process; Two-way active avoidance; Learning and retention (Massanés-Rotger, E. (808) 220)

Conditioned taste aversion; Glutamate; Amygdala; Microdialysis; CZE-LIFD (Tucci, S. (813) 44)

Lateralization
Alcohol; Serotonin; Aggression (Wallace Deckel, A. (807) 38)

Auditory; Speech; Language; Magnetoencephalography; Temporal processing; Cognitive neuroscience (Gage, N. (814) 236)

Lateral reticular nucleus
Visceral pain; Colorectal (Ness, T.J. (802) 163)

Lateral septum
Theta rhythm; In vivo; Intracellular recording; Hippocampal rhythm (Pedemonte, M. (800) 145)

α_2-Adrenoceptor; Norepinephrine; Catecholamines (Liu, W. (806) 36)

Lateral tuberal nucleus
Pick's disease; Hypothalamus; Tuberomamillary nucleus; Neuronal cytoskeleton; Tauopathy; Tau-protein (Braak, H. (802) 119)

Laterodorsal thalamus
Head direction cell; Postsubiculum; Spatial; Navigation (Golob, E.J. (780) 9)

α-Latrotoxin
Botulinum type-A toxin; Neuromuscular junction; Motor nerve sprouting; Synaptotagmin II; Exocytosis; La^{3+} (Angaut-Petit, D. (797) 357)

Layer 5 pyramidal neurons
Proteoglycan; Glycosaminoglycan; Extracellular matrix chondroitin sulfate; Lectin (Ojima, H. (786) 274)

Lazaroid
Oxidative stress; Intracerebral transplantation; PBN; Culture; Parkinson's disease (Karlsson, J. (805) 155)

Lead
NMDA receptor; Subunit; mRNA; Hippocampus; Development (Guilarte, T.R. (790) 98)

Long-term potentiation; Paired-pulse facilitation; Rat; Hippocampal dentate gyrus (Ruan, D.-Y. (806) 196)

Lead (Pb)
Dentate gyrus; Long-term potentiation; LTP decay; In vivo; Hippocampus; Rat; Neurotoxicity; Learning and memory (Gilbert, M.E. (789) 139)

Learned helplessness
Inescapable shock; Dorsal raphe nucleus; 5-HT; 5-HIAA; In vivo microdialysis (Maswood, S. (783) 115)

Inescapable shock; Stressor controllability; 5-HT; 5-HIAA; In vivo microdialysis; Hippocampus; Periaqueductal gray (Amat, J. (797) 12)

Inescapable shock; Stressor controllability; 5-HT; 5-HIAA; In vivo microdialysis; Amygdala (Amat, J. (812) 113)

Learning
Long term potentiation; Immediate early gene; Slice; Imprinting; Passive avoidance (Yanagihara, S. (779) 240)

Norepinephrine; Attention; Locus coeruleus; Cerebellum; Hippocampus (Gould, T.J. (780) 174)

Radial-arm maze; BXSB; C57BL/6; NZB; Inbred mice; Working memory; Reference memory; Spatial; Memory load; Win-shift (Hyde, L.A. (785) 236)

RU28318; RU 38486; Corticosterone; Corticosteroid; Memory; Fear-conditioning; Rat (Cordero, M.I. (786) 11)

Water maze; Anisomycin; Rat; Hippocampus (Meiri, N. (789) 48)

Analgesia; Periaqueductal gray; Nociception; Stress; Tail flick; Opioid; Pavlovian conditioning (Bellgowan, P.S.F. (791) 83)

Conditioned taste aversion; Protein-kinase C; Chelerythrine; Memory; Rat (Sacchetti, B. (799) 84)

Neurosteroid; Nitric oxide; Aging; Pregnenolone; Dehydroepiandrosterone; NMDA receptor; Dizocilpine; Memory; Passive avoidance; Plus-maze (Reddy, D.S. (799) 215)

Nucleus tractus solitarius; c-Fos; Lithium chloride; Aversion conditioning; Amygdala (Schafe, G.E. (800) 40)

Diabetes; Insulin; Hippocampus; Long-term potentiation; Water maze (Biessels, G.-J. (800) 125)

Cerebral ischemia; Postischemic hypothermia; CA1; Gerbil; Habituation; Working memory (Colbourne, F. (803) 69)

7-Nitroindazole; Pavlovian conditioning; Memory; Rat (Maren, S. (804) 155)

PTZ kindling; $GABA_B$ receptor antagonists; CGP compounds; $GABA_B$ binding; Memory retention (Getova, D. (809) 182)

Rat; Open field; Exploration; In vivo microdialysis; Acetylcholine; Reinforcement; Novelty; Arousal; Attention; Aversion (Thiel, C.M. (812) 121)

Learning and memory
Dentate gyrus; Long-term potentiation; LTP decay; Lead (Pb); In vivo; Hippocampus; Rat; Neurotoxicity (Gilbert, M.E. (789) 139)

Neurosteroid; Pregnenolone sulfate; Dehydroepiandrosterone sulfate; σ Receptor; Passive-avoidance performance; Haloperidol; Mouse (Reddy, D.S. (791) 108)

Vasopressin; Calcium; IP_1; Cerebral cortex; Calcium channel (Son, M.C. (793) 244)

Corticosteroid; Glucocorticosteroid receptor; Hippocampus; Facilitation; Rat (Oitzl, M.S. (797) 159)

$Sigma_1$ (σ_1) receptor; Neuroactive neurosteroid; Scopolamine-induced amnesia; Y-maze; Water-maze; Mouse (Urani, A. (799) 64)

Learning and memory: systems and functions
Hearing; Auditory function; Primary sensory pathway; Subcerebellar nuclei (Woody, C.D. (789) 74)

Learning and microinjection
GABA-A receptor; Attention; Benzodiazepine; Spatial memory (Mao, J.-B. (784) 139)

Learning and retention
Intracranial self-stimulation; Parafascicular nucleus; Memory consolidation process; Two-way active avoidance; Lateral hypothalamus (Massanés-Rotger, E. (808) 220)

Lectin
Proteoglycan; Glycosaminoglycan; Extracellular matrix chondroitin sulfate; Layer 5 pyramidal neurons (Ojima, H. (786) 274)

Concanavalin A; Glutamate receptor; Long-term potentiation; AMPA; CNQX; Binding (Hoffman, K.B. (795) 105)

Glial development; Immunocytochemistry; Human fetal brain; CD68; EBM-11; CD34; RCA-1 (Andjelkovic, A.V. (814) 13)

Leech
G-protein coupled receptor; Cannabinoid receptor; Melanocortin receptor; Adrenocorticotropic hormone receptor (Elphick, M.R. (780) 170)

Length
Parallel fiber; Cerebellum; Cerebellar; Rapid Golgi (Huang, C.-m. (801) 211)

Leptin
Zucker; Vasopressin; Obesity; Oxytocin; Neuropeptide Y (Yarnell, D.O. (785) 80)

Leptin receptor; OB protein; OB-R; Obesity; Thalamus; Hypothalamus; Piriform cortex; Choroid plexus; Concentration of hydrogen ions (Corp, E.S. (789) 40)

Interleukin; Tumor necrosis factor; Neuropeptide Y; Opioid; Glucocorticoid; Corticotropin; Endotoxin; Nervous system; Cerebellum; Hippocampus; Hypothalamus; Feeding; Food intake; RNase protection; Competitive RT–PCR (Gayle, D. (795) 77)

Leptin receptor
Leptin; OB protein; OB-R; Obesity; Thalamus; Hypothalamus; Piriform cortex; Choroid plexus; Concentration of hydrogen ions (Corp, E.S. (789) 40)

Neuropeptide Y; Triglyceride; Free fatty acid; Anorexia; Cachexia; Obese gene product (Chance, W.T. (803) 27)

Estrogen receptor; Immunocytochemistry; Rat (Diano, S. (812) 256)

Lesch–Nyhan syndrome
6-Hydroxydopamine; Fixed ratio discrimination training; Striatum; Dopamine; Apomorphine (Stodgell, C.J. (783) 10)

Lesion
Basal ganglia; Striatum; Globus Pallidus; Quinolinic acid; Water maze; Huntington's disease; Rat (Joel, D. (787) 143)

Quinolinic acid; Spinal trigeminal nucleus; Orofacial; Nociception; Rat (Luccarini, P. (803) 79)

Event-related potential; Mismatch negativity; Auditory; Perception; Frequency; Cortex; Sensory memory; Hemispace (Alain, C. (812) 23)

Leukemia inhibitory factor
Ciliary neurotrophic factor; Interleukin-6; Receptor; Nerve injury; mRNA expression (Ito, Y. (793) 321)

Leukocyte
Hyperglycemia; Focal ischemia; Capillary patency; Pathology; Cerebral blood flow (Li, P.-A. (804) 36)

Levocabastine
Neurotensin; Neurotensin receptor; Antinociception; Hypothermia (Tyler, B.M. (787) 78)

Levodopa
Growth inhibitory factor; Metallothionein-III; Glial cell; 4-Methylcatechol; Dopamine (Aoki, C. (792) 335)

Levonorgestrel
Allopregnanolone; Norethisterone; Anxiety; Neuroactive steroid; Burying behavior; Rat (Picazo, O. (796) 45)

Lewis rat
Fisher 344 rat; Nucleus accumbens; Dopamine receptor; Dopamine transporter (Flores, G. (814) 34)

Lewy body
Aggregation; Fibrillation; NACP/α-synuclein; Parkinson's disease (Hashimoto, M. (799) 301)

NACP; Synuclein; Parkinson's disease; Filament aggregation; Neuronal degeneration (Arima, K. (808) 93)

Lidocaine
Inflammation; Carrageenin; Central sensitization; Rat; Paw pressure (Kayser, V. (794) 19)

6-OHDA lesion; Striatum; Substantia nigra; L-DOPA; Turning behavior (Mura, A. (808) 48)

LIF
EGF; gp130; Hippocampus; Astrocyte (Gadient, R.A. (798) 140)

Sympathetic ganglion; Axotomy; Intracellular signaling; STAT; NGF (Rajan, P. (802) 198)

Light
Suprachiasmatic nucleus; Histamine; Circadian; Entrainment; Phase-shift; Dimaprit; Syrian hamster (Scott, G. (783) 1)

Light-activated guanylate cyclase
Molluscan photoreceptors; Phototransduction of invertebrates; cGMP-activated K^+ conductance; Inhibitor of cGMP generation, LY-83583 (Nishi, T. (809) 325)

Light- and dark-adaptation
Cone pedicles; Horizontal cells; Synaptic plasticity; Cytochalasin D; Nucleolus-like body; Teleosts retina; Cytoskeleton (De Juan, J. (792) 173)

Light microscopy
Rat; Male; Female; Metestrous; Vasoactive intestinal peptide; GnRH; Medial preoptic area; Double labeling immunocytochemistry (Horvath, T.L. (795) 277)

Light reflex
Muscarinic acetylcholine receptor; Receptor subtype; Human pupil; Iris sphincter (Ishizaka, N. (787) 344)

Light response
Glutamate; Cyclothiazide; GYKI 52466; Concanavalin A; Receptor desensitization (Yang, J.-H. (797) 125)

Limbal epithelium
Corneal epithelium; Conjunctival epithelium; Opioid; [Met^5]-enkephalin; Preproenkephalin; Eye; Cell renewal mRNA; In situ hybridization (Zagon, I.S. (792) 72)

Limb bud
Motoneurotrophin; Motoneuron; Nerve regeneration; Nerve injury; Ultrastructure (Liu, H.-G. (800) 216)

Limbic
Neuropathology; Hippocampus; Dementia; Cortical column (Joyce, J.N. (784) 7)

Fos; Immunohistochemistry; Haloperidol decanoate; Chronic treatment; Antipsychotic action (Sun, Y.-J. (791) 125)

Limbic area
Stress; Pig; Glucocorticoid receptor (Kanitz, E. (804) 311)

Limbic seizure
Lithium–pilocarpine; Fos protein; HSP72; Stress response; Neuronal damage; 2-Deoxyglucose (Motte, J. (793) 61)

Gene expression; Neuronal injury; In situ hybridization (Hashimoto, K.(804) 212)

Limbic system
Schizophrenia; Ketamine; NMDA; Hippocampus; Prefrontal cortex; Cingulate cortex (Duncan, G.E. (787) 181)

Amphetamine; Seizure; Neurodegeneration; Glutamate; Catecholamine; Basal ganglia (Bowyer, J.F. (809) 77)

Schizophrenia; Ketamine; NMDA; Animal model; Clozapine; Haloperidol; Hippocampus (Duncan, G.E. (812) 65)

Linopirdine
M-type K^+ current; Acetylcholine; NG108-15 cell; Rat cerebral cortex (Noda, M. (794) 274)

Lipid peroxidation
Alzheimer's disease; Amyloid; Electron paramagnetic resonance (EPR); Free radicals; Vitamin E (Koppal, T. (786) 270)

Allopurinol; Asphyxia; *N*-methyl-D-aspartate receptor; Brain; Na^+,K^+-ATPase activity (Marro, P.J. (787) 71)

Pergolide; Dopamine agonist; Parkinson's disease; Free radicals; Scavenging effect; Antioxidant; Electron spin resonance (Gómez-Vargas, M. (790) 202)

Propofol; Ischemia; Reperfusion; Oxidative stress; Glutathione (De La Cruz, J.P. (800) 136)

Dopamine; Methamphetamine; Reactive oxygen species; Superoxide dismutase; Striatum (Açikgöz, O. (813) 200)

Lipid solubility
Zidovudine; Lamivudine; Thymidine; Blood–brain barrier (Wu, D. (791) 313)

Lipid theory
Anesthesia; Inert gas; Inert gas narcosis; Protein theory (Abraini, J.H. (808) 300)

Lipopolysaccharide
Brain inflammation; Microglial activation; Macrophage; Major histocompatibility complex antigen; Alzheimer's disease; Rat (Hauss-Wegrzyniak, B. (794) 211)

Apoptosis; Brain; Fever (Mouihate, A. (805) 95)

Allodynia; Central nervous system; Cerebral inflammation; Hyperalgesia; Nociception (Cahill, C.M. (808) 13)

Lipoxygenase
Kainic acid; Cyclooxygenase; Proenkephalin; Prodynorphin; Fra protein; Hippocampus (Kim, H.-C. (782) 337)

Lithium
Carbamazepine; G-protein; Gene regulation (Jakobsen, S.N. (780) 46)

Methamphetamine; Reverse tolerance; Ambulatory; Activity; c-Fos protein; Striatum; Geniculate nucleus (Namima, M. (782) 83)

Myo-inositol; Inositol uptake; Mouse astrocytes (Wolfson, M. (787) 34)

Tau; Microtubule; Protein kinase A; Osmotic stress; Okadaic acid (Xie, H.-q. (798) 173)

Lithium chloride
Nucleus tractus solitarius; c-Fos; Learning; Aversion conditioning; Amygdala (Schafe, G.E. (800) 40)

Lithium–pilocarpine
Limbic seizure; Fos protein; HSP72; Stress response; Neuronal damage; 2-Deoxyglucose (Motte, J. (793) 61)

Liver
Glucocorticoid; Superoxide dismutase; Catalase; Glutathione peroxidase; Kainic acid; Hippocampus; Cortex (McIntosh, L.J. (791) 209)

Local cerebral blood flow
Whisker–Barrel; Laser–Doppler; Functional hyperemia; Hypercapnia (Gerrits, R.J. (783) 151)

Tau; Microtubule; Protein kinase A; Osmotic stress; Okadaic acid (Xie, H.-q. (798) 173)

Lithium chloride
Nucleus tractus solitarius; c-Fos; Learning; Aversion conditioning; Amygdala (Schafe, G.E. (800) 40)

Lithium–pilocarpine
Limbic seizure; Fos protein; HSP72; Stress response; Neuronal damage; 2-Deoxyglucose (Motte, J. (793) 61)

Liver
Glucocorticoid; Superoxide dismutase; Catalase; Glutathione peroxidase; Kainic acid; Hippocampus; Cortex (McIntosh, L.J. (791) 209)

Local cerebral blood flow
Whisker–Barrel; Laser–Doppler; Functional hyperemia; Hypercapnia (Gerrits, R.J. (783) 151)

Local cerebral glucose utilization
Brain capillary; Chronic nicotine; Immunostaining; Autoradiography (Duelli, R. (782) 36)

D_3 dopamine receptor; 7-OH-DPAT; Nafadotride; [^{14}C]-2-deoxyglucose; Rat; Brain (Levant, B. (812) 193)

Locomotion
Reticulospinal neuron; Command system; Spike frequency adaptation; Delayed excitation; Bursting (Rouse, D.T. (779) 301)

Rhythm generation; Cyclic inhibition; Potassium; Walking; Motoneuron (Büschges, A. (783) 262)

Pavlovian conditioning; Neostriatum; Behavioral sensitization; Apomorphine; Microinjection; Habituation (Pinheiro Carrera, M. (790) 60)

Reward; Reinforcement; Addiction; Turning; Rearing; Grooming; Neurokinins; Opiates; Psychostimulants; Ventral striatum; Rat (Schildein, S. (790) 185)

Prelimbic medial prefrontal cortex; Open field; Behavioral sensitization; Sniffing; Cocaine (Tzschentke, T.M. (795) 71)

Sex difference; Pain modulation; Analgesia; Nucleus raphe magnus; Opioid (Boyer, J.S. (796) 315)

Aging; Dopamine; In vivo electrochemisty; Nigrostriatal; Mesolimbic (Hebert, M.A. (797) 42)

Spinal lemniscus; Excitatory amino acid; Glycine; GABA (Vinay, L. (808) 279)

Sensitization; Social stress; Cocaine; Fos immunohistochemistry; Ventral tegmental area; Dorsal raphe nucleus; Periaqueductal grey area; Locus coeruleus (Nikulina, E.M. (810) 200)

Dopamine; Nucleus accumbens; Amphetamine; Protein kinase C; Dopamine release (Browman, K.E. (814) 112)

Locomotor activity
Dopamine; Dopamine receptor; A 68930 ((1*R*,3*S*)-1-aminoethyl-5,6-dihydroxy-3-phenylisochroman HCl); 7-OH-DPAT ((±) 7-hydroxy-2-(di-*n*-propylamino)tetralin HBr); Thermoregulation; Rat (Salmi, P. (781) 188)

Antisense ODN; Ventromedial hypothalamus; Glutamic acid decarboxylase; GABA; Food intake (Bannai, M. (784) 305)

Ventral subiculum; Hippocampus; Afterdischarge; Nucleus accumbens; *N*-methyl-D-aspartate; Electrical stimulation (Ma, J. (793) 112)

$GABA_A$-BDZ receptor; EtOH sedation; Striatum; Benzodiazepine inverse agonist; *Xenopus oocyte*; $GABA_A$ subunit (June, H.L. (794) 103)

Arg–vasopressin; Corticosterone; Suprachiasmatic nucleus; Circadian rhythm (Isobe, Y. (800) 78)

Dopamine; GABA; Conditioned reward; Ventral pallidum; Nucleus accumbens (Fletcher, P.J. (805) 29)

Brain injury; Neonatal cerebral hypoxia–ischemia; Rat; Cortical EEG; Telemetry (Antier, D. (807) 29)

Nucleus accumbens; Dopamine; (1*S*,3*R*)-ACPD; Excitatory amino acid; Metabotropic glutamate receptor; Amphetamine (Meeker, D. (812) 260)

Arachidonic acid; Rapid-eye movement (REM) sleep; Pain (Murillo-Rodríguez, E. (812) 270)

Locomotor activity rhythm
Circadian clock; Phase shifts; Fos protein; Circadian times; Subjective night (Chambille, I. (808) 250)

Locomotor reactivity to novelty
Individual differences; Sleep–wakefulness cycle; Stress; Corticosterone (Bouyer, J.J. (804) 114)

Locus ceruleus
Monoamine oxidase; Tyramine; Serotonin; β-Phenylethylamine; Dopamine; Substantia nigra; Dorsal raphe nucleus (Arai, R. (812) 275)

Norepinephrine; Learning; Attention; Cerebellum; Hippocampus (Gould, T.J. (780) 174)

Parafascicular neuron; Nociceptive modulation; Yohimbine; Prazosin; Intrathecal injection; Intracerebroventricular injection (Zhang, C. (784) 116)

Barrington's nucleus; Pontine micturition center; Distal colon; Irritable bowel syndrome; Transsynaptic tracing; Pseudorabies virus; Retrograde tracing (Pavcovich, L.A. (784) 355)

Morphine; Opiate dependence; Naloxone; Brain slice (Bell, J.A. (788) 237)

Neuropeptide Y; Exploration; Anxiety; Elevated plus-maze (Kask, A. (788) 345)

Barrington's nucleus; Micturition; Male sex behavior (Rizvi, T.A. (789) 256)

Modulation; Trigeminal system; Somatosensory cortex; Noradrenergic (Waterhouse, B.D. (790) 33)

External anal sphincter; Electromyographic recording technique; Noradrenergic neuron; Adrenoceptor; Cat; Opioid (Abysique, A. (795) 147)

α_{2A}-Adrenergic receptor; Clonidine (Lee, A. (795) 157)

NMDA; Voltammetry; Nitric oxide synthase inhibitor (Hall, S. (796) 176)

Pain; Analgesia; Morphine; Morphine-6β-glucuronide; Periaqueductal gray;Rostral ventromedial medulla (Krzanowska, E.K. (799) 329)

Sensitization; Social stress; Cocaine; Fos immunohistochemistry; Ventral tegmental area; Dorsal raphe nucleus; Periaqueductal grey area; Locomotion (Nikulina, E.M. (810) 200)

Opioid withdrawal; Opiate withdrawal; Cerebral glucose metabolism; Central amygdala; Opioid abstinence; Rat; Intracerebral injections; Methylnaloxonium (Kimes, A.S. (814) 1)

Monoamine oxidase; Enzyme histochemistry; Tyrosine hydroxylase; Fluorescence immunohistochemistry; Noradrenergic neuron (Hida, T. (814) 209)

Locust
Soluble guanylyl cyclase; Cyclic-GMP; *Schistocerca gregaria*; Nitric oxide (Elphick, M.R. (800) 174)

Locustamyotropin
Angiotensin I-converting enzyme; Insect; Neurotransmitter; Neuropeptide metabolism; Neuropeptide processing; FXPRLamide; Pyrokinin; Pheromone biosynthesis activating neuropeptide (Schoofs, L. (785) 215)

Long-term diazepam treatment
Spontaneous diazepam withdrawal; Dizocilpine; Ifenprodil; Drug-admixed food (DAF) method; Fischer 344 rat (Tsuda, M. (790) 82)

Long-term potentiation
Immediate early gene; Slice; Imprinting; Passive avoidance; Learning (Yanagihara, S. (779) 240)

Insular cortex; NMDA receptor; Basolateral amygdaloid nucleus; CPP; MK-801 (Escobar, M.L. (779) 314)

Cortical-spreading depression; NMDA; AMPA (Footitt, D.R. (781) 339)

Suprachiasmatic nucleus; *N*-Methyl-D-aspartate receptor; NMDA receptor; Synaptic potential (Nisikawa, Y. (782) 303)

Dentate gyrus; Hippocampus; Synapsin I; mRNA (Morimoto, K. (783) 57)

Immediate early gene; Slice; Imprinting; Passive avoidance; Learning (Yanagihara, S. (779) 240)

Insular cortex; NMDA receptor; Basolateral amygdaloid nucleus; CPP; MK-801 (Escobar, M.L. (779) 314)

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Suprachiasmatic nucleus; *N*-Methyl-D-aspartate receptor; NMDA receptor; Synaptic potential (Nisikawa, Y. (782) 303)

Dentate gyrus; Hippocampus; Synapsin I; mRNA (Morimoto, K. (783) 57)

Concussion; Synaptic plasticity; Hippocampus (Sick, T.J. (785) 287)

Isoproterenol; Phenylephrine; Phentolamine; Metoprolol; Hippocampus (Chaulk, P.C. (787) 59)

Dentate gyrus; LTP decay; Lead (Pb); In vivo; Hippocampus; Rat; Neurotoxicity; Learning and memory (Gilbert, M.E. (789) 139)

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Metabotropic glutamate receptors; Dentate gyrus; (*RS*)-2-Chloro-5-hydroxyphenylglycine; 1*S*,3*R*-1-Aminocyclopentate-1,3-dicarboxylic acid; (2*S*,3*S*,4*S*)-α-(Carboxy-cyclopropyl)-glycine; L-2-Amino-4-phosphono butyric acid (O'Leary, D.M. (809) 91)

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Lordosis
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Losartan
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L-NAME; Prazosin; Indomethacin; Prostaglandin; Blood pressure (Liu, H. (785) 317)

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LTD
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LT neuron
Anesthetic; Volatile; Enflurane; Spinal cord; WDR neuron; Receptive field (Yanagidani, T. (812) 301)

LTP
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Ganglion; Sympathetic; Adenosine; Receptor; Transport inhibitor (Hogan, Y.H. (807) 19)

Hippocampus; Extracellular matrix; Tissue plasminogen activator (Hoffman, K.B. (811) 29)

Low molecular weight heparin
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Anesthetic; Volatile; Enflurane; Spinal cord; WDR neuron; Receptive field (Yanagidani, T. (812) 301)

LTP decay
Dentate gyrus; Long-term potentiation; Lead (Pb); In vivo; Hippocampus; Rat; Neurotoxicity; Learning and memory (Gilbert, M.E. (789) 139)

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LY206130
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Ganglion; Sympathetic; Adenosine; Receptor; Transport inhibitor (Hogan, Y.H. (807) 19)

Hippocampus; Extracellular matrix; Tissue plasminogen activator (Hoffman, K.B. (811) 29)

LTP decay
Dentate gyrus; Long-term potentiation; Lead (Pb); In vivo; Hippocampus; Rat; Neurotoxicity; Learning and memory (Gilbert, M.E. (789) 139)

LY206130
Fluoxetine; Pindolol; Feeding; $5HT_{1A}$ receptor (Li, D.L. (781) 121)

LY235959
Morphine; Antinociception; *N*-Methyl-D-aspartate receptor; L-Arginine; MK-801 (Bhargava, H.N. (782) 314)

LY294002
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Lysosphingolipid
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M

M100907
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Heat shock protein; Heme oxygenase; Contusion injury; Microglia (Mautes, A.E.M. (795) 17)

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Magnesium
Fura-2; Mag-Fura-2; Dorsal root ganglion; Depolarization (Kato, H. (779) 329)

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Hyperglycemia; Cerebral ischemia; Reperfusion; Nitric oxide; NOS inhibitor; Hydroxyl radical; Glutamate; Superparamagnetic iron oxide (Wei, J. (791) 146)

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Magnetic stimulation
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Auditory; Speech; Language; Lateralization; Temporal processing; Cognitive neuroscience (Gage, N. (814) 236)

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Calcium binding protein; Immunocytochemistry; Dual staining (Miyata, S. (785) 178)

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Major histocompatibility complex antigen
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Male
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Male rat
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Male sex behavior
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Male sexual behavior
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Man
H-reflex; Posture; Ankle dorsiflexion; Reciprocal inhibition (Kasai, T. (792) 159)

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Manganese
Aconitase; Mitochondria; Iron; Respiratory chain; Parkinson's diseases (Zheng, W. (799) 334)

Synaptic neurotransmission; Amygdala; Olfactory system (Takeda, A. (811) 147)

Mannitol
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Mannose
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(−) Deprenyl; Primate brain region; AChE activity; MAO-B; Dendritic morphology; CA3 pyramidal neuron (Lakshmana, M.K. (796) 38)

MAO-B
(−) Deprenyl; Primate brain region; AChE activity; MAO-A; Dendritic morphology; CA3 pyramidal neuron (Lakshmana, M.K. (796) 38)

(−) Deprenyl; Primate brain region; AChE activity; MAO-A; Dendritic morphology; CA3 pyramidal neuron (Lakshmana, M.K. (796) 38)

MAO inhibition
1,2,3,4-Tetrahydro-β-carboline; Cigarette smoke; Dopaminergic neuroprotection; Parkinson's disease (Soto-Otero, R. (802) 155)

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MAPK
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MAP kinase
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Cdk5; GSK-3; Hyperphosphorylated tau; Neurofibrillary tangles; Alzheimer's disease (Pei, J.-J. (797) 267)

MAP kinase phosphatase
Axotomy; FKPB; Immunophilin; Regeneration (Winter, Ch. (801) 198)

Marijuana
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Mass density
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Massed training
Spaced training; Associative learning; Classical conditioning; Appetitive stimulus; Aversive stimulus; Gastropod (Kojima, S. (808) 113)

Masseteric motoneuron
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Mastication
Digastric reflex; Inferior alveolar nerve; Motor control; Freely behaving rabbit (Yamamura, K. (796) 257)

Maternal behavior
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Medial preoptic area; Immediate early gene; c-Fos; Fos B (Numan, M. (792) 348)

Agonistic behavior; Female sexual behavior; Lactation; Lordosis; Mesencephalon; Suckling (Lonstein, J.S. (804) 21)

Matrigel
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Maturation phenomenon
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Mayahara direct method
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Maze learning
Frontal lobe; Episodic memory; Procedural memory; Visuospatial memory; Positron emission tomography; Regional cerebral blood flow (Van Horn, J.D. (793) 29)

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MCA
Focal-ischemia; Rat-model; Low molecular weight heparin (Li, P.-A. (801) 220)

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mCPP
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MC4-receptor
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MDMA
Nucleus accumbens; Dopamine; Serotonin; GABA (Obradovic, T. (785) 1)

Synapse; Cocaine; Methamphetamine; Depression; High-affinity uptake; Voltammetry; Electron microscopy; Immunocytochemistry; Autoradiography; Citalopram; Paroxetine (Zhou, F.C. (805) 241)

Amphetamine; Reserpine; Dopamine; Serotonin; In vivo dialysis; Striatum; Vesicular storage (Sabol, K.E. (806) 69)

Serotonin synthesis rate; α-methyl-L-tryptophan; Ecstasy; Neurotoxicity (Mück-Šeler, D. (810) 76)

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Meal patterns
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Mecamylamine
DMXB; NMDA receptor; Neuroprotection; Nicotinic; Ischemia (Shimohama, S. (779) 359)

Nicotine chronic; Nicotine withdrawal; Hippocampus; Striatum (Houdi, A.A. (799) 257)

Mechanical allodynia
Mechanical hyperalgesia; Spontaneous pain; NMDA; Non-NMDA; Substance P (Carlton, S.M. (790) 160)

Mechanical hyperalgesia
Mechanical allodynia; Spontaneous pain; NMDA; Non-NMDA; Substance P (Carlton, S.M. (790) 160)

Mechanism
Transient forebrain ischemia; Indomethacin; Apoptosis; Cyclooxygenase (Kondo, F. (791) 352)

Mechanoreceptor
Carbonic anhydrase isozyme II; Ruffini ending; Periodontal ligament; Rat (Ochi, K. (779) 276)

Calretinin; Regeneration; Ruffini ending; Periodontal ligament; Inferior alveolar nerve; Rat (Hiroshima, K. (807) 218)

Medial amygdala
Dentate gyrus; Long-term potentiation; Population spike; Population excitatory postsynaptic potential; Picrotoxin (Noguchi, K. (794) 151)

Medial basal hypothalamus
Aromatase; Estrogen synthetase; Preoptic area; Amygdala; Cytochrome *P*450; CYP19 (Roselli, C.E. (811) 105)

Medial cortex
Long-term potentiation; Turtle; NMDA; AMPA; Nifedipine (Muñoz, M.-D. (807) 155)

Medial forebrain bundle
Brain stimulation reward; Self-stimulation; Rate–frequency curve shift; Pedunculopontine tegmentum; Lateral dorsal tegmentum (Waraczynski, M. (800) 154)

Angiotensin receptors; Bed nucleus of the stria terminalis; Presynaptic (Grove, K.L. (809) 5)

Medial geniculate
Fear; Anxiety; Startle; Conditioned inhibition (Heldt, S.A. (813) 274)

Medial perforant path
Feedforward excitation; Paired-pulse facilitation; Current source density; Dentate gyrus; CA3 (Wu, K. (797) 35)

Medial plantar nerve
Demyelination; Intraepidermal innervation; Pressure neuropathy; Renaut body; Tactile allodynia; Tactile hyperesthesia; Von Frey filament; Wallerian degeneration (Mizisin, A.P. (788) 13)

Medial prefrontal cortex
Cocaine; Adrenalectomy; Self-stimulation (Carr, K.D. (787) 321)

Sigma receptors; NMDA receptors; Pyramidal cells (Liang, X. (807) 208)

Corticosterone; Mesocorticolimbic dopamine system; Nucleus accumbens; Caudate-putamen; Shell; cocaine (Ikemoto, S. (814) 171)

Medial preoptic area
Male rat; Castration; Dopamine; Amphetamine; Bed nucleus of stria terminalis; Caudate putamen; Amygdala; Microdialysis (Du, J. (782) 11)

Serotonin; 8-OH-DPAT; Dopamine; Microdialysis; Male sexual behavior (Lorrain, D.S. (790) 217)

Estrogen receptor; Progestin receptor; Puberty; Lordosis (Olster, D.H. (790) 254)

Maternal behavior; Immediate early gene; c-Fos; Fos B (Numan, M. (792) 348)

Rat; Male; Female; Metestrous; Vasoactive intestinal peptide; GnRH; Double labeling immunocytochemistry; Light microscopy (Horvath, T.L. (795) 277)

Lordosis response; Photoperiod; Neural estrogen receptor; Neural progestin receptor; Syrian hamster; Ventromedial hypothalamus (Mangels, R.A. (796) 63)

Nitric oxide; Cyclic GMP; Diurnal rhythm (Pu, S. (808) 310)

Medial preoptic area / anterior hypothalamus
Partner preference; Estradiol benzoate; Testosterone propionate (Paredes, R.G. (813) 1)

Medial preoptic nucleus
Electron microscopy; Estrogen receptor; Immunocytochemistry; Periventricular preoptic nucleus; Substance P (Kalló, I. (781) 335)

Calcium spike; Calcium channel; Whole-cell patch clamp (Sundgren-Andersson, A.K. (783) 194)

Medial septal nucleus
Lateral hypothalamic area; Zona incerta; Nucleus of diagonal band; Spinal cord; True-blue; Diamidino yellow; Retrograde tracer; Anterograde tracer; Melanin-concentrating hormone; Neuropeptides (Bittencourt, J.C. (805) 1)

Medial septum
Acetylcholine; Hippocampus; Diagonal band; Handling; Restraint; AMPA; NMDA; γ-Aminobutyric acid; Muscimol; Bicuculline (Moor, E. (789) 1)

Cholinergic neuron; GABA receptor; Choline acetyltransferase (ChAT); Cell culture (Kenigsberg, R.L. (805) 123)

Diagonal band; M_3 receptor; Cholinergic; Acetylcholine; Basal forebrain (Liu, W. (805) 220)

Medial septum / diagonal band
γ-aminobutyric $acid_A$ receptor; Postnatal ethanol treatment; Fetal alcohol syndrome; Neuronal development; Patch-clamp electrophysiology (Hsiao, S.-H. (810) 100)

Medial thalamus
Visceral pain; Morphine; Naloxone; Electrophysiological recording; Rat (Yang, S.-w. (779) 41)

Medial vestibular nucleus
Toluene; Vestibular system; In vitro (Magnusson, A.K. (779) 334)

Spatial property; Single unit; Superior vestibular nucleus; VOR; Semicircular canal (Quinn, K.J. (780) 143)

Median eminence
Neuronal nitric oxide synthase; Electron microscopy; Rat (Kawakami, S.-i. (789) 322)

Nitric oxide; GnRH; CRH; Opiate receptor; Cannabinoid receptor; Opioid; Hypothalamus (Prevot, V. (790) 236)

Paraventricular nucleus; Arcuate nucleus; *Phaseolus vulgaris* leucoagglutinin; Rat (Tóth, Z.E. (802) 294)

Median preoptic nucleus
Preoptic area; Immediate-early gene; Differential neuronal activation (Patronas, P. (798) 127)

Central regulation of salivation; Salivary gland; Viral tracing; Organum vasculosum of the lamina terminalis; Subfornical organ; Preoptic area; Insular cortex (Hübschle, T. (806) 219)

Median raphe nucleus
Freezing; Fear conditioning; Behavioral inhibition (Avanzi, V. (790) 178)

Medium-sized neurons
Basal ganglia; Dopamine; Dopamine receptors (Ouimet, C.C. (808) 8)

Medulla
Nucleus tractus solitarius; Noradrenergic; Ventral striatum (Delfs, J.M. (806) 127)

Medulla oblongata
Autonomic nervous system; Fever; Herpes virus; Hypothalamus; Oxytocin; Paraventricular hypothalamic nucleus; Periaqueductal gray matter; Preoptic region; Pseudorabies virus; Raphe magnus; Sympathetic nervous system; Temperature regulation; Viral transneuronal tracing (Smith, J.E. (786) 153)

Rhythm generation; Ventrolateral medulla; Ventral respiratory group; Propriobulbar neuron; Nucleus ambiguus (Sun, Q.-J. (809) 204)

Medullary brain slice
Respiration; Hypoglossal motoneuron; Norepinephrine; Mouse (Selvaratnam, S.R. (805) 104)

Medullary visceral zone
Habenular nucleus; Fos; Tyrosine hydroxylase; Catecholamine; Rat (Li, T. (783) 51)

MEK
Nerve growth factor; MAP kinase; PC12 cells; Neurite; Ras (Sano, M. (785) 299)

Melanin-concentrating hormone
Lateral hypothalamic area; Zona incerta; Monkey brain; Neuropeptides; *Cebus apella* (Bittencourt, J.C. (804) 140)

Lateral hypothalamic area; Zona incerta; Medial septal nucleus; Nucleus of diagonal band; Spinal cord; True-blue; Diamidino yellow; Retrograde tracer; Anterograde tracer; Neuropeptides (Bittencourt, J.C. (805) 1)

Melanocortin receptor
G-protein coupled receptor; Leech; Cannabinoid receptor; Adrenocorticotropic hormone receptor (Elphick, M.R. (780) 170)

Autoradiography; γ1-MSH; HS014; Rat brain (Lindblom, J. (810) 161)

Melanotroph
Adenosine receptor; K^+ current (Mei, Y.A. (793) 271)

Melatonin
Serotonin *N*-acetyltransferase; Circadian rhythm; Development; Egg; Cricket; *Gryllus bimaculatus*; Insect (Itoh, M.T. (781) 91)

Circadian rhythms; Retina; Retinal degeneration; Mouse (Tosini, G. (789) 221)

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Circadian phase shift; High performance liquid chromatography; Methylcobalamin; Monoamine assay; Pineal gland; Rat; Vitamin B_{12} (Ikeda, M. (795) 98)

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[Met^5]-enkephalin
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***N*-Methyl-D-aspartate (NMDA) receptor**
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***N*-Methyl-D-aspartate receptor**
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Methyl palmoxirate
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Methylphenidate
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1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine
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Mice
Global cerebral ischemia; Vascular anatomy; Ischemic brain injury (Murakami, K. (780) 304)

MPTP; Methamphetamine; Neurotoxicity; Core temperature; Striatum; Dopamine (Moy, L.Y. (790) 264)

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6-Hydroxydopamine; Nigral transplant; Striatum; L-DOPA; 5-Hydroxytryptophan; Serotonin; Rat (Ishida, Y. (788) 207)

Nociceptin; Orphanin FQ; Striatum; Dopamine; Naloxone (Konya, H. (788) 341)

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Circadian rhythm; Melatonin; Dopamine; Retina; Pigeon (Adachi, A. (792) 361)

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DA–5-HT interaction; Substantia nigra; $5\text{-}HT_1$ receptor; $5\text{-}HT_2$ receptor; $5\text{-}HT_4$ receptor (Thorré, K. (796) 117)

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Somatosensory thalamus; Cocaine; Sensory system; Norepinephrine; Serotonin (Rutter, J.J. (798) 7)

Glutamate; Aspartate; cGMP; cAMP; Protein kinase; Pain; Dorsal horn; Hyperalgesia (Sluka, K.A. (798) 281)

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Impoverished environment; Hippocampus; Circadian rhythm; Stress; Behavior (Mitsushima, D. (805) 207)

Brainstem; Nucleus tractus solitarius; Acetylcholine; Glutamate; Baroreceptor (Ashworth-Preece, M.A. (806) 287)

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Δ^9-Tetrahydrocannabinol; CB_1 receptor; Hippocampus; Acetylcholine; SR141716A (Carta, G. (809) 1)

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Conditioned taste aversion; Glutamate; Amygdala; Lateral hypothalamus; CZE-LIFD (Tucci, S. (813) 44)

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Microglia
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N-acetylaspartylglutamate; Oligodendrocyte; Alzheimer's disease; Huntington's disease; Excitatory amino acid; Peptide (Passani, L. (794) 143)

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Microglial activation
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Brain; Microdialysis; Dopamine; Acetylcholine; Nucleus accumbens; Feeding behavior; Galanin; Neuropeptide Y; Paraventricular nucleus; Hypothalamus (Rada, P. (798) 1)

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Microiontophoresis
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Microsphere embolism
Noradrenaline release; Microdialysis; Synaptosomes; Synapsin I phosphorylation; Cerebral cortex; Ischemia (Hayashi, H. (783) 241)

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Microtubule-associated protein 2
Neurodegeneration; Neurotoxicity mapping; Propidium iodide; Selective vulnerability; Organotin compounds (Noraberg, J. (783) 305)

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Microwave fixation
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Midbrain periaqueductal gray
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Focal ischemia; Penumbra zone; Ischemic depolarization; Spreading depression; Cerebrolysin; MK-801; Rat (Koroleva, V.I. (786) 104)

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Morphine-6β-glucuronide
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Morphine tolerance and dependence
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Motor control
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Motor cortex
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Partial denervation; Nifedipine; Motor unit; Rat skeletal muscle; L-type Ca^{2+} channels (White, C.M. (779) 125)

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Long-term potentiation; Dentate gyrus; Hippocampus; Synapsin I (Morimoto, K. (783) 57)

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GAP-43; Cerebellum; GABA; Glutamate; Cerebellar culture; Granule cell; Northern hybridization; In situ hybridization; Development (Console-Bram, L.M. (783) 316)

RU-486; Stress; Opioid; Proenkephalin; CRH; Hypothalamus (García-García, L. (786) 215)

Chemokine; Cytokine; Brain injury; Cortical lesion (Hausmann, E.H.S. (788) 49)

Amygdala; Central amygdala nucleus; Corticotropin-releasing hormone; In situ hybridization; Neuropeptide; Paraventricular nucleus; Stress (Hsu, D.T. (788) 305)

NMDA receptor; Subunit; Hippocampus; Development; Lead (Guilarte, T.R. (790) 98)

Acidosis; Dimethyl sulfoxide; Astrocyte; In vitro; Metallothionein; Acidosis; Quercetin; Bioflavonoid (Conklin, D.R. (794) 304)

DPDPE; [D-Ala^2]deltorphin II; Antinociception; DOR-1; CXBK mice (Kest, B. (805) 131)

Fluoro-gold; Iontophoresis; Fluorescent histochemistry; Tyrosine hydroxylase; In situ hybridization (Cheung, S. (808) 174)

Kindled; Electroconvulsive shock seizure; Muscarinic cholinergic receptor; Hippocampus (Mingo, N.S. (810) 9)

Dynorphin; Spinal cord; Halothane; Ketamine; Nitrous oxide (Tanimoto, M. (811) 88)

mRNA Analysis
Human hypothalamus; Obesity; Appetite regulation; Y1 receptor; Y2 receptor; Y5 receptor; Radioligand binding (Statnick, M.A. (810) 16)

mRNA expression
ApoE-deficient mouse; Spatial memory; Corticosterone; Restraint stress (Zhou, Y. (788) 151)

Ciliary neurotrophic factor; Interleukin-6; Leukemia inhibitory factor; Receptor; Nerve injury (Ito, Y. (793) 321)

mRNA for glutathione reductase
Low-dose γ-ray; Glutathione; Mouse brain (Kojima, S. (808) 262)

MS-818
Pyrimidine compound; Migratory Schwann cell; Film model; Neural regeneration (Torigoe, K. (787) 337)

α-MSH
Stress; Fever; Corticosterone; Food intake; Water intake (Milligan, E.D. (810) 48)

γ1-MSH
Autoradiography; Melanocortin receptor; HS014; Rat brain (Lindblom, J. (810) 161)

MT II
Paraventricular nucleus; SHU9119; MC4-receptor; Food intake (Giraudo, S.Q. (809) 302)

M-type K$^+$ current
Linopirdine; Acetylcholine; NG108-15 cell; Rat cerebral cortex (Noda, M. (794) 274)

Mucosal afferent
Trigemino-facial reflex; Blink reflex; Cutaneous afferent; Trigemino-hypoglossal reflex; Man (Maisonobe, T. (810) 220)

MUG
Adenovirus; Gene therapy; β-Galactosidase; Spinal cord; Motor neurons; Subarachnoid; Central nervous system (Mannes, A.J. (793) 1)

Müller glia
Amacrine cell; Horizontal cell; Immunohistochemistry; Teleost (Ekström, P. (812) 179)

Multiparametric brain monitoring
EEG burst suppression; Cerebral ischemia; Mitochondrial redox state; Extracellular K^+; Cerebral blood flow; Ischemic depolarization (Zarchin, N. (780) 230)

Multiple sclerosis
Calpain; Calpastatin; Calcium; Neutral proteinase; Experimental allergic encephalomyelitis (Shields, D.C. (794) 68)

Multiple sclerosis treatment
Neuromuscular junction; 3,4-Diaminopyridine; Presynaptic current; Potassium current; Lambert–Eaton myasthenic syndrome treatment; Motor nerve conduction (Miralles, F. (789) 239)

Multiunit activity
Primary auditory cortex; Monkey; Current source density; Pitch encoding; Tonotopic organization (Fishman, Y.I. (786) 18)

Mu opioid receptor
Rat; Neuropathic pain; Morphine; G-protein (Porreca, F. (795) 197)

Muscarinic
Circadian; Entrainment; Suprachiasmatic; Rhythm; Hypothalamus; Cerebral cortex; Receptor (Bina, K.G. (797) 143)

Muscarinic acetylcholine receptor
Receptor subtype; Human pupil; Light reflex; Iris sphincter (Ishizaka, N. (787) 344)

Ethylcholine mustard aziridinium (ECMA or AF64A); Quisqualic acid; Retina; Form-deprivation myopia (Fischer, A.J. (794) 48)

Muscarinic agonist
Acetylcholine (Bymaster, F.P. (795) 179)

SH-SY5Y cells; Muscarinic receptor subtypes (Magni, P. (798) 75)

Muscarinic cholinergic receptor
Kindled; Electroconvulsive shock seizure; mRNA; Hippocampus (Mingo, N.S. (810) 9)

Muscarinic receptor
Scopolamine; Neurotoxicity; Excitatory amino acid (Rami, A. (788) 323)

Spermidine; Polyamine site; NMDA receptor; Metabotropic glutamate receptor; Hippocampus; Working memory (Kishi, A. (793) 311)

Xanomeline; Alzheimer's disease; Phosphoinositide hydrolysis; Milameline (Bymaster, F.P. (795) 179)

cPLA2; Signal transduction; Arachidonic acid; Oligodendrocyte; Glia (Lautens, L.L. (809) 18)

Muscarinic receptor subtypes
SH-SY5Y cells; Muscarinic antagonists (Magni, P. (798) 75)

Muscimol
Acetylcholine; Calcium; Dissociated neurons; Dopamine; GabaA; Striatum; Vesamicol (Login, I.S. (779) 33)

Monkey; Intracerebral injections; Bicuculline; Globus pallidus internalis; Substantia nigra pars reticulata (Burbaud, P. (780) 102)

Defense rage behavior; Hypothalamus; GABA; $GABA_A$ receptor; Bicuculline; Fluoro-Gold; Immunocytochemistry; Cat (Cheu, J.W. (783) 293)

Dorsal cochlear nucleus; Anteroventral cochlear nucleus; Frequency tuning; Rat (Paolini, A.G. (785) 309)

Acetylcholine; Hippocampus; Medial septum; Diagonal band; Handling; Restraint; AMPA; NMDA; γ-Aminobutyric acid; Bicuculline (Moor, E. (789) 1)

GABA; Calcium; Phosphorylation; Receptor binding (Churn, S.B. (809) 68)

Muscle afferent
Cat; Hindlimb; Motoneuron; Spinal cord; Tail (Wada, N. (788) 327)

Kinesthesia; Proprioception; Voluntary movement; Direction coding; Velocity coding (Ribot-Ciscar, E. (791) 167)

Muscle afferent neuron
Cat; Exercise pressor reflex; Excitatory amino acid; Spinal cord; Blood pressure (Wilson, L.B. (807) 222)

Muscle contraction
Magnetoencephalography; Somatosensory cortex; Interaction (Forss, N. (781) 259)

Muscle rigidity
NMDA receptor/glycine site; 5,7-DCKA; Striatum (Lorenc-Koci, E. (793) 315)

Muscle spindle
Stretch; Presynaptic inhibition; Spinal cord; Human (Cheng, J. (779) 280)

Fusimotor; Afferent; Summation; Dynamic; Static (Carr, R.W. (800) 97)

Adrenal nerve activity; Sympathetic nerve; Periodontal mechanoreceptor; Rat (Ikeda, K. (802) 289)

Calcium-binding protein; Neurocalcin; Immunohistochemistry; Golgi tendon organ; Motor endplate (Iino, S. (808) 294)

Muscular dystrophy
dy^{2J} / dy^{2J}; Laminin-2; Neuromuscular transmission; Neuromuscular junction (Edwards, J.P. (788) 262)

Mushroom body
Associative memory; Insect; Brain; GABA; Inhibitory transmitter; Immunocytochemistry (Yamazaki, Y. (788) 80)

Mutation
Mitochondria; Neurofibrillary tangles; Neuritic plaque; Mitochondrial DNA; Synapse; Neuronal activity; Oxidative damage (Chandrasekaran, K. (796) 13)

Mycoplasma fermentans
Astrocyte; MfGL-II; Choline-containing-glycolipid; Nitric oxide; Prostaglandin E_2; Protein kinase C; Inflammation; Lactate production (Ben-Menachem, G. (803) 34)

Myelin
Variant form; Very low density lipoprotein receptor; Human brain; apoE; β-amyloid (Nakamura, Y. (793) 47)

Myelination index
Demyelination; Schwann cell; Neural plasticity; Spinal cord contusion; Paraplegia (Salgado-Ceballos, H. (782) 126)

Myelin basic protein
Transgenic mouse; *Shiverer*; Gene therapy; Myelinogenesis; Central nervous system (Kimura, M. (785) 245)

Myelinogenesis
Myelin basic protein; Transgenic mouse; *Shiverer*; Gene therapy; Central nervous system (Kimura, M. (785) 245)

Myeloperoxidase
Spinal cord injury; Neutrophil elastase; Motor disturbance; Activated leukocyte; Rat (Taoka, Y. (799) 264)

Myocardial contractility
Cardioinhibitory neuron; Bradycardia; Cardiac ganglion; Congestive heart failure; Heart; Parasympathetic nervous system; Vagus nerve (Blinder, K.J. (804) 325)

Myogenic response
Autoregulation; Arteriole; Middle cerebral artery (Golding, E.M. (785) 293)

***Myo*-inositol**
Lithium; Inositol uptake; Mouse astrocytes (Wolfson, M. (787) 34)

Myoinositol
Astrocyte; Rat; Cell swelling; Methylmercury; Taurine; Amiloride; In vitro (Aschner, M. (811) 133)

Myosin light chain kinase
Noradrenaline uptake; Noradrenaline transporter; Calcium ion; Calmodulin-dependent protein kinase II; PC12 cell (Uchida, J. (809) 155)

N

N1
Event-related potential; Hippocampus; Neocortex; Amygdala; Nucleus accumbens; P2; Reward; Attention (Ehlers, C.L. (780) 138)

Na^+
Astrocytes; Rat; Cell swelling; Methylmercury; K^+; In vitro (Aschner, M. (813) 254)

NAC
Ischemia; NACP; Synuclein; Presynaptic protein; Hippocampus (Ishimaru, H. (788) 311)

Na^+–Ca^{2+} exchanger
Hypoxia; Calcium; Sodium; Fura-2; Glutamate; Glutamate transporter (Yamaguchi, S. (813) 351)

***N*-acetylaspartylglutamate**
Oligodendrocyte; Microglia; Alzheimer's disease; Huntington's disease; Excitatory amino acid; Peptide (Passani, L. (794) 143)

***N*-acetylsphingosine**
Cochlear outer hair cell; Chloride channel; Potassium channel; Calcium calmodulin-dependent protein kinase II; Protein phosphatase; Calyculin A (Minamino, M. (781) 275)

NACP
Ischemia; NAC; Synuclein; Presynaptic protein; Hippocampus (Ishimaru, H. (788) 311)

Lewy body; Synuclein; Parkinson's disease; Filament aggregation; Neuronal degeneration (Arima, K. (808) 93)

NACP / α-synuclein
Aggregation; Fibrillation; Lewy body; Parkinson's disease (Hashimoto, M. (799) 301)

NADPH-d histochemistry
Nitric oxide; Olfaction; Crustacea (Johansson, K.U.I. (807) 237)

NADPH diaphorase
Zinc; EL mouse; Convulsion; Zonisamide; Nitric oxide; Hippocampal formation (Nagatomo, I. (789) 213)

Fos; Hypovolemia; In situ hybridization; Nitric oxide synthase; Paraventricular nucleus; Polyethylene glycol; Supraoptic nucleus (Ueta, Y. (790) 25)

Nitric oxide; Brain development; Methylazoxymethanol acetate; Immunochemistry (Tregnago, M. (793) 54)

NOS; Induction; PAG; Nociception; Rat (Rodella, L. (793) 333)

Calcitonin gene-related peptide; Jugular ganglion; Nodose ganglion; Petrosal ganglion; Somatostatin; Substance P; Tyrosine hydroxylase (Ichikawa, H. (800) 312)

Nitric oxide synthase; Choline acetyltransferase; Vasoactive intestinal polypeptide; Co-localization; Middle cerebral artery; Sphenopalatine ganglia; Pig (Yu, J.-G. (801) 78)

Temporal lobe epilepsy; Intracerebral injection; Somatostatin (Miettinen, R. (813) 9)

Na^+-electrogenesis
Subiculum; Topiramate; GABA; Rat (Kawasaki, H. (807) 125)

Nafadotride
D_3 dopamine receptor; 7-OH-DPAT; [^{14}C]-2-deoxyglucose; Local cerebral glucose utilization; Rat; Brain (Levant, B. (812) 193)

Na^+/H^+ exchange
Amiloride; 5-(*N*-Ethyl-*N*-isopropyl)-amiloride; Cerebral ischemia; Glutamate; Amino acid; Acidosis (Phillis, J.W. (812) 297)

Na^+–K^+ ATPase
Membrane depolarization; Hippocampal slices; Intracellular pH; Intracellular Ca^{2+}; Glycolysis (Zhan, R.-Z. (780) 86)

Na–K ATPase
K-NPPase cytochemistry; Catecholamine; Choroid plexus; Inovan; Dopamine (Kanoh, N. (787) 154)

Na^+,K^+-ATPase
Free radical; Hypoxia; Fetal brain; In utero; Peroxidation (Maulik, D. (798) 166)

Blood–brain barrier; Abluminal polarity; Enzyme cytochemistry; Ernst indirect method; Mayahara direct method (Manoonkitiwongsa, P.S. (798) 261)

Cerebral cortex; Ischemia; Microsphere embolism; Noradrenaline uptake; Synaptosome (Hayashi, H. (808) 190)

Na^+,K^+-ATPase activity
Allopurinol; Asphyxia; *N*-methyl-D-aspartate receptor; Brain; Lipid peroxidation (Marro, P.J. (787) 71)

Na/K pump
Voltage dependency; Neostriatal neuron (Munakata, M. (800) 282)

Naloxone
Medial thalamus; Visceral pain; Morphine; Electrophysiological recording; Rat (Yang, S.-w. (779) 41)

Locus coeruleus; Morphine; Opiate dependence; Brain slice (Bell, J.A. (788) 237)

Nociceptin; Orphanin FQ; Microdialysis; Striatum; Dopamine (Konya, H. (788) 341)

Analgesia; Formalin test; Opioid peptide; Rat (Kang, W. (792) 133)

Morphine; Dopamine metabolism; Glutamate; Ascorbic acid; Striatum (Enrico, P. (797) 94)

Stress experience; Footshocks; Behaviour; Rats; Open field; Emotional stimulus (Van den Berg, C.L. (799) 6)

Opiate drug abuse; Neuroblast division; Cell death/apoptosis; Cerebellar granule cell; μ-Opioid receptor (Opanashuk, L.A. (804) 87)

Glutamate; Hippocampus; Naltrindole; Opioid; Pentylenetetrazol (PTZ) kindling (Schroeder, H. (811) 40)

Morphine tolerance and dependence; Nucleus paragigantocellularis; Single unit recording; Morphine; Opiate withdrawal (Haghparast, A. (814) 71)

Naltrexone
Paraventricular nucleus; Central nucleus of the amygdala; DAMGO; Food intake (Giraudo, S.Q. (782) 18)

Dopamine; Food intake; Heroin; Microdialysis (Taber, M.T. (785) 24)

Nucleus of the solitary tract; Central nucleus of the amygdala; DAMGO; Food intake (Giraudo, S.Q. (802) 184)

Palatability; Feeding; Reward; c-Fos; Opioid (Park, T.H. (805) 169)

Naltrindole
Glutamate; Hippocampus; Naloxone; Opioid; Pentylenetetrazol (PTZ) kindling (Schroeder, H. (811) 40)

L-NAME
Losartan; Prazosin; Indomethacin; Prostaglandin; Blood pressure (Liu, H. (785) 317)

L-NAME
Unit-recording; Whisker pairing; Unpaired control; Principle vibrissa (Maalouf, M. (793) 149)

$5HT_2$ receptor; 7-Nitroindazole; Nitric oxide (Xu, X. (804) 337)

NAN-190
Astrocyte; S100β; Neurotrophic factor; Synaptic plasticity; Hippocampal formation; Electron microscopy (Wilson, C.C. (782) 235)

Na^+ pump
Glia; Neurons; Ouabain (Monteith, G.R. (795) 325)

Nasopalatine nerve
Vomeronasal; Accessory olfactory system; Nitric oxide synthase; Neuropeptide (Cantó Soler, M.V. (811) 47)

Natriuresis
Cadmium; Cadmium neurotoxicity; Brain angiotensin; Calcium channel; Losartan; Gadolinium; Kaliuresis (Luz, C.P. (796) 265)

Navigation
Head direction cell; Laterodorsal thalamus; Postsubiculum; Spatial (Golob, E.J. (780) 9)

NBQX
Spinal cord injury; Fibroblast growth factor (Follesa, P. (782) 306)

Near infrared spectroscopy
Hypoxia–ischemia; Hyperglycemia; Cerebral metabolism; Newborn piglet (Chang, Y.S. (798) 271)

Necrosis
Delayed neuronal death; Apoptosis; Cycloheximide; *Bax*; ICE (Bossenmeyer, C. (787) 107)

Negative feedback inhibition
Hippocampal EEG; Spectral analysis; Intracavernous pressure; Penile erection; Papaverine; Rat (Chang, A.Y.W. (788) 160)

Neocortex
Event-related potential; Hippocampus; Amygdala; Nucleus accumbens; N1; P2; Reward; Attention (Ehlers, C.L. (780) 138)

AMPA receptor; EPSC; Inhibitory interneuron (Zhou, F.-M. (780) 166)

Epilepsy; Microcephaly; Hippocampus; Cognitive disorder (Rafiki, A. (782) 142)

Aluminum; Fluoride; Neurotoxicity; Chronic; Cerebrovasculature; Hippocampus; Rat; Amyloid (Varner, J.A. (784) 284)

Hippocampus; Repair; Reinnervation; Grafts; Behavior (Zhou, W. (792) 97)

GABA; Ethanol; $GABA_A$ receptor; Rat; Electrophysiology; Alcohol (Soldo, B.L. (800) 187)

Hypertensive rat; Timm staining; Striatum; Thalamus (Sørensen, J.C. (812) 265)

Neocortical atrophy
Choline acetyltransferase; Nissl-staining; *Trans*-synaptic; Nicotinic (Meyer, E.M. (786) 252)

Neocortical development
Extracellular matrix; Glycosaminoglycan; Nervous system (Kappler, J. (793) 328)

Neocortical neuron
Functional synapse; Synchronized bursting (Nakanishi, K. (795) 137)

Neodifferentiation
Actin; Cytokeratin; Parvalbumin; Cochlear hair cells; Mammalian; Electron microscopy; Confocal microscopy (Parietti, C. (813) 57)

Neonatal cerebral hypoxia–ischemia
Brain injury; Rat; Cortical EEG; Locomotor activity; Telemetry (Antier, D. (807) 29)

Neonatal rabbits
Circadian rhythms; Feeding-entrained anticipatory activity; c-Fos; Supraoptic nucleus; Paraventricular hypothalamic nucleus (Allingham, K. (783) 210)

Neonatal rat
Calcium; Magnesium; Control of breathing; Central chemosensitivity; Isolated brainstem–spinal cord preparation (Kuwana, S.-i. (786) 194)

Neonate
c-*fos*; hsp70; Brain slices; Apoptosis; NMDA; Translation; Transcription; Stress proteins; Immediate early genes (Hasegawa, K. (785) 262)

Hypoxia–ischemia; Cysteine; Neurotoxicity; Sulfur-containing amino acid; Excitatory amino acid (Puka-Sundvall, M. (797) 328)

Brain; Iron; Transgenic; Mouse; Hypoxia–ischemia (Sheldon, R.A. (810) 114)

Neoplasm
Clonal cell line; Stem cell (Minakawa, M. (813) 172)

Neostriatal neuron
Na/K pump; Voltage dependency (Munakata, M. (800) 282)

Neostriatum
Anterograde tracing; Barrels; Biotinylated dextran amine; Cortical column; Corticostriatal; Rat; Varicosities (Alloway, K.D. (785) 341)

Pavlovian conditioning; Behavioral sensitization; Apomorphine; Microinjection; Habituation; Locomotion (Pinheiro Carrera, M. (790) 60)

Choline acetyltransferase; $p75^{NTR}$; Calbindin; Calcium-binding protein; Basal forebrain; Raccoon (Tremere, L. (797) 351)

Nerve grafting
Rat sciatic nerve; Peripheral nerve; Nerve regeneration; Nerve repair; Transplantation (Sondell, M. (795) 44)

Nerve growth factor
PC12 cell; Calcium; K^+ depolarization; Apoptosis (Dispersyn, G. (779) 350)

Calcitonin gene-related peptide; Gene expression; Sensory neuron; α_2-adrenergic receptor (Supowit, S.C. (782) 184)

Urinary bladder; Diabetes (Steinbacher Jr., B.C. (782) 255)

MAP kinase; PC12 cells; Neurite; MEK; Ras (Sano, M. (785) 299)

Nucleus basalis magnocellularis; Excitotoxicity; Quisqualic acid; Choline acetyltransferase; Low-affinity nerve growth factor receptor (Winkler, J. (788) 1)

Sympathetic; Micturition; Autonomic; Bladder smooth muscle; Hypertension (Spitsbergen, J.M. (790) 151)

P75 neurotrophin receptor; Basal forebrain; Spatial memory; Choline; Sex difference (Williams, C.L. (794) 225)

Cisplatin; Vincristine; Taxol; Superior cervical ganglia; Rat (Hayakawa, K. (794) 313)

Dorsal root ganglion; Peripheral nerve injury (Lee, S.E. (796) 99)

Phosphoinositide-3 kinase; PI3-kinase; Wortmannin; LY294002; Retrograde axonal transport (Reynolds, A.J. (798) 67)

192 IgG-saporin; Acetylcholinesterase; Choline acetyltransferase; Cholinergic basal forebrain neuron; Immunolesion; Regeneration (Gu, Z. (801) 190)

Aldose reductase; Inflammation; Neurotrophin-3; Oxidative stress; Substance P; *trkA* (Fernyhough, P. (802) 247)

Oleic acid; Glycerol; Diacylglycerol; Phospholipid; PC12 cell (Li, J. (803) 44)

Capsaicin; Nerve injury; Primary neuron; Apoptosis; Trigeminal ganglion (Sugimoto, T. (807) 147)

Potassium buffering; Glia; Postnatal neuronal cell culture; Depolarization (Abiru, Y. (809) 115)

Ischemia; Delayed neuronal death; Hippocampus (Ishimaru, H. (789) 194)

Nerve injury
Trigeminal system; Somatotopic organization; Nitric oxide; Trans-synaptic regulation; Transganglionic transport; Horseradish peroxidase (Takemura, M. (781) 78)

Regeneration; Periodontal ligament; Growth-associated protein 43; Ruffini ending; Inferior alveolar nerve; Terminal Schwann cell (Youn, S.H. (787) 41)

Nitric oxide; NO-releasing compound; Hyperalgesia; Spinal cord; Cyclic GMP (Inoue, T. (792) 263)

Ciliary neurotrophic factor; Interleukin-6; Leukemia inhibitory factor; Receptor; mRNA expression (Ito, Y. (793) 321)

Motoneurotrophin; Limb bud; Motoneuron; Nerve regeneration; Ultrastructure (Liu, H.-G. (800) 216)

Capsaicin; Primary neuron; Apoptosis; Trigeminal ganglion; Nerve growth factor (Sugimoto, T. (807) 147)

Nerve injury-induced hyperalgesia
Partial nerve ligation; SNX-111; SNX-230; Nifedipine; Quin 2; Voltage-dependent calcium channel; Nociceptive flexion reflex (White, D.M. (801) 50)

Nerve regeneration
Rat sciatic nerve; Peripheral nerve; Nerve grafting; Nerve repair; Transplantation (Sondell, M. (795) 44)

Motoneurotrophin; Limb bud; Motoneuron; Nerve injury; Ultrastructure (Liu, H.-G. (800) 216)

Nerve repair
Rat sciatic nerve; Peripheral nerve; Nerve regeneration; Nerve grafting; Transplantation (Sondell, M. (795) 44)

Nerve transection
Neuronal cell death; Calcium binding protein; Rat; Immunohistochemistry; In situ hybridisation (Dassesse, D. (786) 181)

Nervous system
Extracellular matrix; Glycosaminoglycan; Neocortical development (Kappler, J. (793) 328)

Interleukin; Tumor necrosis factor; Leptin; Neuropeptide Y; Opioid; Glucocorticoid; Corticotropin; Endotoxin; Cerebellum; Hippocampus; Hypothalamus; Feeding; Food intake; RNase protection; Competitive RT–PCR (Gayle, D. (795) 77)

Nervus terminalis
Gonadotropin-releasing hormone; Cerebrospinal fluid; Elasmobranch; Radioimmunoassay; Terminal nerve (Moeller, J.F. (806) 104)

Neural cell adhesion molecule
Programmed cell death; Cortical neuron; Apoptosis (Azizeh, B.Y. (796) 20)

Neural connectivity
Anisotropic diffusion; Diffusion tensor; Brain asymmetry (Peled, S. (780) 27)

Neural control of skin blood flow
C fiber; Pressure strain; Laser Doppler; Human (Fromy, B. (811) 166)

Neural degeneration
Brain injury; Fiber track degeneration; Neurobehavior (Matthews, M.A. (794) 1)

Neural development
Acetylcholinesterase; Butyrylcholinesterase; Dorsal root ganglion; Sensory nervous system; Histochemistry; In situ hybridization (Koenigsberger, C. (787) 248)

Neural estrogen receptor
Lordosis response; Photoperiod; Neural progestin receptor; Syrian hamster; Medial preoptic area; Ventromedial hypothalamus (Mangels, R.A. (796) 63)

Neural network
LTD; CA3; Hippocampus (Wu, Z. (789) 335)

Neural pathway
Nucleus of the Tractus Solitarius; Pontine respiratory group; Bötzinger complex; Respiration (Zheng, Y. (782) 113)

Neural plasticity
Demyelination; Myelination index; Schwann cell; Spinal cord contusion; Paraplegia (Salgado-Ceballos, H. (782) 126)

Neural progestin receptor
Lordosis response; Photoperiod; Neural estrogen receptor; Syrian hamster; Medial preoptic area; Ventromedial hypothalamus (Mangels, R.A. (796) 63)

Neural regeneration
Pyrimidine compound; MS-818; Migratory Schwann cell; Film model (Torigoe, K. (787) 337)

Neural transection
Dorsal raphe nucleus; Prolactin; Pseudopregnancy; Radioimmunoassay; Rat (Maekawa, F. (813) 195)

Neural transplantation
MPTP; D2 receptor; Dopamine; Monkey; Parkinson's disease (Elsworth, J.D. (795) 55)

Neural transplants
Substantia nigra; Parkinson's disease; Striatonigral pathway; Striatum; Innervation (Sortwell, C.E. (791) 117)

Neurite
Nerve growth factor; MAP kinase; PC12 cells; MEK; Ras (Sano, M. (785) 299)

Neurite outgrowth
Senile plaque; Alzheimer's disease; Cryostat tissue section (Tolar, M. (787) 49)

1321N1 human astrocytoma cells; PC-12 cells; Neurotrophic factor; Mitogen-activated protein kinase (Obara, Y. (806) 79)

Neurite promoting factor
Laminin; Cerebellar culture; Granuloprival culture; Purkinje cell; Dendritic spine; Dendrite; Astrocyte; Synapse; Development; Regeneration (Seil, F.J. (795) 112)

Neuritic plaque
Mitochondria; Neurofibrillary tangles; Mitochondrial DNA; Synapse; Neuronal activity; Oxidative damage; Mutation (Chandrasekaran, K. (796) 13)

Neuroactive neurosteroid
Sigma$_1$ (σ_1) receptor; Scopolamine-induced amnesia; Y-maze; Water-maze; Learning and memory; Mouse (Urani, A. (799) 64)

Neuroactive steroid
Allopregnanolone; Norethisterone; Levonorgestrel; Anxiety; Burying behavior; Rat (Picazo, O. (796) 45)

GABA$_A$ receptor; Ethanol dependence; Gender; Ethanol withdrawal (Devaud, L.L. (796) 222)

Absence seizure; γ-Hydroxybutyric acid (GHB); Thalamus; Binding (Banerjee, P.K. (813) 343)

Neuroanatomy
Spinal cord; Autonomic; Parasympathetic; Pontine micturition center (Nuding, S.C. (785) 185)

Cognition; Memory; Menopause; Hippocampus; Dementia; Estrogen receptor (Register, T.C. (788) 320)

Taste; Pons (Karimnamazi, H. (813) 283)

Neuroaxonal dystrophy
Age; Mouse strain (Schmidt, R.E. (806) 141)

Neurobehavior
Brain injury; Neural degeneration; Fiber track degeneration (Matthews, M.A. (794) 1)

Neuroblast division
Opiate drug abuse; Cell death/apoptosis; Cerebellar granule cell; Naloxone; μ-Opioid receptor (Opanashuk, L.A. (804) 87)

Neurocalcin
Calcium-binding protein; Dorsal root ganglia; Nodose ganglia; Trigeminal ganglia; Rat (Iino, S. (781) 236)

Calcium-binding protein; Olfactory bulb; Specific cell marker (Briñón, J.G. (795) 204)

Calcium-binding protein; Immunohistochemistry; Muscle spindle; Golgi tendon organ; Motor endplate (Iino, S. (808) 294)

Neurocan
Chondroitin sulfate; Proteoglycan; Rat brain; Perineuronal net; Glia (Matsui, F. (790) 45)

Neurodegeneration
MoMuLV (Moloney murine leukemia virus)-*ts*1; Central nervous system; Cytokine; Cell death; Tumor necrosis factor α; Fas; Fas ligand (Choe, W. (779) 1)

Neurotoxicity mapping; Propidium iodide; Microtubule-associated protein 2; Selective vulnerability; Organotin compounds (Noraberg, J. (783) 305)

Excitotoxicity; Calcium deposits; Hydroxyapatite; Calcium binding proteins; Glial reaction (Herrmann, G. (786) 205)

Dopaminergic; Cell death; Tyrosine kinase; Neuron (Walker, D.G. (794) 181)

Alzheimer's disease; β-Amyloid peptide; Complement activation; C5b-9; MAC; Complement inhibitor; CD59; Cytotoxicity (Shen, Y. (796) 187)

Apoptosis; Corticosteroid; Growth factor (Islam, A. (797) 342)

Amyloid; Tangle; Astrocyte; Membrane protein; In situ hybridization; Immunohistochemistry (Takami, K. (802) 89)

Parkinson's disease; 6-Deoxy-6-β-[^{18}F]fluoronaltrexone; Positron emission tomography; Basal ganglia; Dopamine (Cohen, R.M. (806) 292)

Amphetamine; Limbic system; Seizure; Glutamate; Catecholamine; Basal ganglia (Bowyer, J.F. (809) 77)

Stroke; Ischemia; Excitotoxicity; Glutaminase; Delayed neuronal damage (Newcomb, R. (813) 103)

Neurodegenerative disorders
Ultrastructure; Assembled tau filaments; Paired helical filaments; Scanning transmission electron microscopy; Mass density (Ksiezak-Reding, H. (814) 86)

Neuroendocrine
Indoleamine; Wild mouse; Deermouse; Photoperiod; Cartography; Hypothalamus (Phelix, C.F. (808) 197)

Neuroendocrine regulation
Hypothalamus; Prolactin receptor; Dopaminergic neuron; Estradiol; Progesterone; Arcuate nucleus; Periventricular nucleus (Lerant, A. (802) 141)

Stress; Serotonin; Serotonin metabolism; ACTH; Serotonergic lesion (Jørgensen, H. (811) 10)

Neuroepithelium
α_1-adrenoreceptor; G protein; Transglutaminase; Apoptosis (Gill, L.S. (788) 95)

Neurofibrillary pathology
Alzheimer disease; Neurofibrillary staging; Hippocampus; Stereology (Bobinski, M. (799) 156)

Neurofibrillary staging
Alzheimer disease; Neurofibrillary pathology; Hippocampus; Stereology (Bobinski, M. (799) 156)

Neurofibrillary tangles
Mitochondria; Neuritic plaque; Mitochondrial DNA; Synapse; Neuronal activity; Oxidative damage; Mutation (Chandrasekaran, K. (796) 13)

Autoradiography; Inositol 1,4,5-trisphosphate; Inositol 1,3,4,5-tetrakisphosphate; Protein kinase C; Phorbol 12,13-dibutyrate; Human brain; Alzheimer's disease; Staging; Hippocampus (Kurumatani, T. (796) 209)

Cdk5; GSK-3; MAP kinase; Hyperphosphorylated tau; Alzheimer's disease (Pei, J.-J. (797) 267)

Argyrophilic grains; Alzheimer disease; Axonal transport; Image analysis; Neuropil threads (Velasco, M.E. (813) 329)

Neurofibromatosis type I
Glial cells; Mitogenic activity (Caronti, B. (793) 21)

Neurofilament
Traumatic brain injury; Cat; Cytoskeleton; Phosphorylation; Calcium (Okonkwo, D.O. (784) 1)

Electron microscopy; Dorsal column nucleus; Cat; Aging (Zhang, J.-H. (797) 333)

Neuronal differentiation; Bcl-2; PC12; Neurotoxic compound (Suzuki, A. (801) 59)

Insulin; Neuron cell culture; MAPK; Isoproterenol; PD98059 (Schechter, R. (808) 270)

Neurofilament proteins
Mossy fibers; Rat hippocampus; Fascia dentata; Development; Immunocytochemistry (Mikuni, N. (811) 1)

Neurogenesis
D-aspartic acid; D-amino acid; Immunohistochemistry; Neuron; Central nervous system (Sakai, K. (808) 65)

Neurogenic hypertension
Aortic depressor nerve; Barosensitive neuron; Barosensitivity; Coefficient of variation; Firing rate; Skewness; Rostral ventrolateral medulla (Han, Y.M.Y. (813) 262)

Neuroglia
Astrocyte; Gliosis; Cell culture; Cytokine; CNTF (Levison, S.W. (803) 189)

Neuroimmunology
Opioid receptors; Morphine; Lymphocytes; HPA axis; Nociception; Rat (Mellon, R.D. (789) 56)

Neuroinflammation
Rat; Basal forebrain; Acetylcholine; Alzheimer's disease; Model (Hauss-Wegrzyniak, B. (780) 294)

Neurointermediate lobe denervation
Dopamine; DOPAC; Prolactin (DeMaria, J.E. (806) 89)

Neurokinin 1 receptor
Substance P; Autoradiography; Human visual cortex (Kus, L. (794) 309)

Neurokinins
Reward; Reinforcement; Addiction; Turning; Locomotion; Rearing; Grooming; Opiates; Psychostimulants; Ventral striatum; Rat (Schildein, S. (790) 185)

Neuroleptic
Microdialysis; Behavior; Extrapyramidal; Neurotransmitter (O'Connor, W.T. (787) 299)

Akathisia; Fos; β-adrenoceptor antagonist; Propranolol; Extra-pyramidal side effects (Ohashi, K. (802) 134)

Neurological deficit
Closed-head injury; Brain edema; Blood-brain barrier; Acetylcholinesterase inhibitor; Rat (Chen, Y. (784) 18)

Neurologic motor function
Cerebral edema; Fluid-percussion brain injury; Ifenprodil; Memory; NMDA receptor blocker (Okiyama, K. (792) 291)

Neuroma
Inferior alveolar nerve; Neuropeptide; Neuropathic pain; Ferret (Long, A. (791) 263)

Neuromagnetism
Hemispheric lesion; Plastic reorganization; Somatosensory evoked field; Hand cortical representation; Magnetic resonance imaging (Rossini, P.M. (782) 153)

Neuromedin K receptor
Dopaminergic neuron; Co-localization; Immunocytochemistry; Midbrain; Rat (Chen, L.-W. (780) 150)

Neuromodulation
Neurosteroid; Progesterone; Kainate receptor; Cultured spinal neuron; Patch-clamp (Wu, F.-S. (779) 354)

NMDA receptor; Glycine site; Biphasic effect; Patch clamp; Channel kinetics; Cross-reactivity (Liu, G.J. (791) 290)

Ventral Pallidum; Amygdala; Nucleus accumbens; Opioid; DAMGO; Tachykinin; Substance P; Excitatory amino acid; Glutamate (Mitrovic, I. (792) 193)

Central pattern generator; Stomatogastric ganglion; Dopamine (Ayali, A. (794) 155)

Neuromodulator
Barrel cortex; Peptide; Microiontophoresis; Single cell recording; Rat (Cahusac, P.M.B. (793) 73)

Neuromuscular junction
dy^{2J} / *dy*^{2J}; Laminin-2; Muscular dystrophy; Neuromuscular transmission (Edwards, J.P. (788) 262)

3,4-Diaminopyridine; Presynaptic current; Potassium current; Lambert–Eaton myasthenic syndrome treatment; Multiple sclerosis treatment; Motor nerve conduction (Miralles, F. (789) 239)

Botulinum type-A toxin; Motor nerve sprouting; Synaptotagmin II; Exocytosis; α-Latrotoxin; La^{3+} (Angaut-Petit, D. (797) 357)

Neuromuscular plasticity
Jaw muscle; *Rana pipiens*; Retrograde tracer (Alley, K.E. (813) 187)

Neuromuscular transmission
dy^{2J} / *dy*^{2J}; Laminin-2; Muscular dystrophy; Neuromuscular junction (Edwards, J.P. (788) 262)

Neuron
Ethanol; $GABA_A$; GT1–7; Chloride; GnRH (Javors, M.A. (780) 183)

Imidazoline receptor; Behavior; Antihypertensive drug; Glia; Rat; Immunocytochemistry (Ruggiero, D.A. (780) 270)

Nitric oxide; NO donor; cGMP; Immunocytochemistry; Mollusc; *Helix pomatia* (Huang, S. (780) 329)

Audiogenic seizures; Inferior colliculus; Ethanol withdrawal; Convulsion (Chakravarty, D.N. (783) 102)

Apoptosis; Development; Aging; Western blotting; Immunohistochemistry (Obonai, T. (783) 167)

Fibroblast growth factor-9; Neurotrophic factor; Brain; Immunohistochemistry (Todo, T. (783) 179)

Apoptosis; DNQX; Hypoxia; Oxidative stress; Trolox (Copin, J.-C. (784) 25)

Adenylyl cyclase; Astrocyte; Cyclic AMP; Desensitization; 5-Hydroxytryptamine; 5-HT_7 receptor; Frontal cortex (Shimizu, M. (784) 57)

Heparin-binding EGF-like growth factor (HB-EGF); Immunohistochemistry; In situ hybridization; Rat brain (Hayase, Y. (784) 163)

Advanced glycation end product; Dog; Cerebellum; Aging; Purkinje cell (Weber, K. (791) 11)

Dopaminergic; Cell death; Neurodegeneration; Tyrosine kinase (Walker, D.G. (794) 181)

Hypoxia; Death; Apoptosis; Gene; p53 (Banasiak, K.J. (797) 295)

Hypothalamus; Obesity; Food deprivation (Huang, X.-F. (799) 307)

Astrocyte; Ependymal cell; Ischemia; Middle cerebral artery occlusion; Tumor necrosis factor-alpha (Gong, C. (801) 1)

Iron; Neurotrophic factors; Ferritin; Transferrin; Transferrin receptor (Dickinson, T.K. (801) 171)

Dog; Aging; Tau; Amyloid; Phosphorylation; Oligodendrocyte; Plaque (Wegiel, J. (802) 259)

D-aspartic acid; D-amino acid; Immunohistochemistry; Central nervous system; Neurogenesis (Sakai, K. (808) 65)

Neuronal
NTera-2; Differentiation; Promoter; cAMP (Fennell, M. (799) 243)

Neuronal activity
Mitochondria; Neurofibrillary tangles; Neuritic plaque; Mitochondrial DNA; Synapse; Oxidative damage; Mutation (Chandrasekaran, K. (796) 13)

Neuronal cell death
Nerve transection; Calcium binding protein; Rat; Immunohistochemistry; In situ hybridisation (Dassesse, D. (786) 181)

DNA repair; Cell cycle; Programmed cell death; Neurotrophin (Araki, T. (794) 239)

Neuronal culture
Amyloid; Alzheimer's disease; GABA immunocytochemistry; Scanning electron microscopy; Image analysis (Pakaski, M. (796) 239)

Acute-phase protein; Amyloid P component; C-reactive protein; hNT neuron; NT2 cell (Duong, T. (813) 303)

Neuronal cytoskeleton
Pick's disease; Hypothalamus; Lateral tuberal nucleus; Tuberomamillary nucleus; Tauopathy; Tau-protein (Braak, H. (802) 119)

Neuronal damage
Hookworm-derived recombinant neutrophil inhibitory factor; Cerebral ischemia; Neutrophil; CD11b/CD18 integrin; Rat (Jiang, N. (788) 25)

Limbic seizure; Lithium–pilocarpine; Fos protein; HSP72; Stress response; 2-Deoxyglucose (Motte, J. (793) 61)

Neuronal death
Pyramidal cell; Axotomy; Brain injury (Fishman, P.S. (779) 231)

CA1; CA3; Eliprodil; Hippocampus; Hypoxia; Ischemia; Neuroprotection; *N*-Methyl-D-aspartate; NR2B; Stroke (Reyes, M. (782) 212)

Middle-latency auditory evoked potential; Gerbil; Auditory cortex; Transient cerebral ischemia (Ichiki, H. (806) 278)

Neuronal degeneration
Corticotropin-releasing factor; Seizure; Hypothalamus; Extrahypothalamus; Neuronal injury (Piekut, D.T. (781) 100)

Corticosterone; Hippocampal formation; Neuronal reorganization; Stereology (Sousa, N. (794) 199)

Lewy body; NACP; Synuclein; Parkinson's disease; Filament aggregation (Arima, K. (808) 93)

Cerebral ischemia; Microtubule-associated protein; Calpain (Minger, S.L. (810) 181)

Neuronal development
Medial septum/diagonal band; γ-aminobutyric $acid_A$ receptor; Postnatal ethanol treatment; Fetal alcohol syndrome; Patch-clamp electrophysiology (Hsiao, S.-H. (810) 100)

Neuronal differentiation
Bcl-2; Neurofilament; PC12; Neurotoxic compound (Suzuki, A. (801) 59)

Neuronal excitability
Epilepsy; Intracellular pH; Glutamate; GABA; HEPES; Hippocampal slice (Bonnet, U. (796) 161)

Transient forebrain ischemia; Excitatory synaptic transmission; Long-term potentiation; Dentate gyrus (Aoyagi, A. (799) 130)

Neuronal firing
Nucleus accumbens; Nosepoke; Novelty stimulus; Microwire electrode; Novel food consumption (Lee, R.-S. (799) 317)

Neuronal injury
Corticotropin-releasing factor; Seizure; Hypothalamus; Extrahypothalamus; Neuronal degeneration (Piekut, D.T. (781) 100)

Limbic seizure; Gene expression; In situ hybridization (Hashimoto, K. (804) 212)

Seizure; Kainate; Status epilepticus; Transgenic; In situ nick translation; Apoptosis; Heat shock protein; Neuronal stress (Hu, R.Q. (810) 229)

Neuronal loss
Alzheimer disease; Hippocampus; Atrophy; Clinicopathological correlations; Stereology (Bobinski, M. (805) 267)

Nucleus dorsalis; Red nucleus; Microglial reaction; Nitric oxide synthase; Nitrotyrosine (Xu, M. (808) 23)

Neuronal migration disorder
Epilepsy; Microcephaly; Cortical dysplasia; Heterotopia (Chevassus-au-Louis, N. (812) 252)

Neuronal nicotinic acetylcholine receptor
Physostigmine; Subtype; Insect; Whole-cell voltage clamp; Single channel (Van den Beukel, I. (789) 263)

Neuronal nicotinic receptor
Open-channel block; Bullfrog sympathetic ganglia; Blood pressure (Shen, W.-X. (788) 118)

Neuronal nitric oxide synthase
Median eminence; Electron microscopy; Rat (Kawakami, S.-i. (789) 322)

Glibenclamide; Iberiotoxin; 7-Nitroindazole (Wang, Q. (793) 187)

Nicotinamide adenine dinucleotide phosphate-diaphorase (NADPH-d); Spatial alternation; Dentate gyrus; Frontal cortex; Rat (Zhang, S. (801) 101)

Neuronal reorganization
Corticosterone; Hippocampal formation; Neuronal degeneration; Stereology (Sousa, N. (794) 199)

Neuronal stress
Seizure; Kainate; Status epilepticus; Transgenic; In situ nick translation; Apoptosis; Neuronal injury; Heat shock protein (Hu, R.Q. (810) 229)

Neuron cell culture
Insulin; MAPK; Neurofilament; Isoproterenol; PD98059 (Schechter, R. (808) 270)

Neuron death
Glucocorticoid; Stress; Striatum; gp120; HIV; AIDS-related dementia; Calcium (Iyer, A.M. (808) 305)

Neuron-glia interaction
GABA transporter; GAD-65; GAD-67; Astrocyte; Enucleation; Neuroplasticity (Yan, X.-X. (783) 63)

Neuron modality
Iontophoresis; Substantia gelatinosa; Alpha agonist; Antinociception (Jones, S.L. (798) 55)

Neurons
Glia; Na^+ pump; Ouabain (Monteith, G.R. (795) 325)

Neuropathic pain
Clonidine; MK-801; Neurotoxicity; Activity; Rat (Jevtovic-Todorovic, V. (781) 202)

Inferior alveolar nerve; Neuroma; Neuropeptide; Ferret (Long, A. (791) 263)

N-type voltage-sensitive calcium channel; P-type voltage-sensitive calcium channel; Chronic constriction injury; Partial sciatic nerve injury; Thermal hyperalgesia (Yamamoto, T. (794) 329)

Rat; Mu opioid receptor; Morphine; G-protein (Porreca, F. (795) 197)

DNIC; Allodynia; Capsaicin (Witting, N. (801) 206)

Neuropathology
Hippocampus; Limbic; Dementia; Cortical column (Joyce, J.N. (784) 7)

Neuropeptide
Amygdala; Central amygdala nucleus; Corticotropin-releasing hormone; In situ hybridization; mRNA; Paraventricular nucleus; Stress (Hsu, D.T. (788) 305)

Inferior alveolar nerve; Neuroma; Neuropathic pain; Ferret (Long, A. (791) 263)

Trigeminal nucleus; Trigeminal nucleus, spinal; Inflammation (Roche, A.K. (791) 283)

Glutamate; Excitatory transmission; Protease (Luthi-Carter, R. (795) 341)

Vomeronasal; Nasopalatine nerve; Accessory olfactory system; Nitric oxide synthase (Cantó Soler, M.V. (811) 47)

Neuropeptide FF
Anti-opioid; Analgesia; Morphine; Tolerance; Mouse (Gelot, A. (808) 166)

Neuropeptide metabolism
Angiotensin I-converting enzyme; Insect; Neurotransmitter; Neuropeptide processing; FX-PRLamide; Locustamyotropin; Pyrokinin; Pheromone biosynthesis activating neuropeptide (Schoofs, L. (785) 215)

Neuropeptide processing
Angiotensin I-converting enzyme; Insect; Neurotransmitter; Neuropeptide metabolism; FX-PRLamide; Locustamyotropin; Pyrokinin; Pheromone biosynthesis activating neuropeptide (Schoofs, L. (785) 215)

Neuropeptides
Melanin-concentrating hormone; Lateral hypothalamic area; Zona incerta; Monkey brain; *Cebus apella* (Bittencourt, J.C. (804) 140)

Lateral hypothalamic area; Zona incerta; Medial septal nucleus; Nucleus of diagonal band; Spinal cord; True-blue; Diamidino yellow; Retrograde tracer; Anterograde tracer; Melanin-concentrating hormone (Bittencourt, J.C. (805) 1)

Neuropeptide Y
Microdialysis; Seizure; Rat; Dorsal hippocampus; Kainic acid (Husum, H. (781) 351)

Feeding; Food deprivation; Meal patterns; Perifornical hypothalamus (Marín Bivens, C.L. (782) 271)

Zucker; Vasopressin; Obesity; Oxytocin; Leptin (Yarnell, D.O. (785) 80)

Calcium binding protein; S-100; Reactive neuron; Dorsal root ganglion nerve cell; Sciatic nerve transection (Huang, Y.-L. (785) 351)

Locus coeruleus; Exploration; Anxiety; Elevated plus-maze (Kask, A. (788) 345)

Interleukin; Tumor necrosis factor; Leptin; Opioid; Glucocorticoid; Corticotropin; Endotoxin; Nervous system; Cerebellum; Hippocampus; Hypothalamus; Feeding; Food intake; RNase protection; Competitive RT–PCR (Gayle, D. (795) 77)

Brain; Microdialysis; Dopamine; Acetylcholine; Nucleus accumbens; Feeding behavior; Galanin; Paraventricular nucleus; Hypothalamus; Microinjection (Rada, P. (798) 1)

Immunotoxin lesion; Somatostatin; Cholinergic basal forebrain; Cortex; Rat; Alzheimer's disease (Zhang, Z.-J. (800) 198)

HIOMT; European hamster; Pineal; Melatonin; 5-methoxytryptophol; Seasonal rhythms (Ribelayga, C. (801) 137)

Triglyceride; Free fatty acid; Anorexia; Cachexia; Obese gene product; Leptin receptor (Chance, W.T. (803) 27)

DOI; RU 24969, TFMPP, Hypothalamic paraventricular nucleus; Serotonin; Food intake; Energy substrate utilization (Currie, P.J. (803) 212)

2-Deoxy-D-glucose; Mercaptoacetate; Immunohistochemistry; Hormone; In situ hybridization (Wang, J. (804) 7)

Hypoxia; Glomus cell; Tyrosine hydroxylase; Immunohistochemistry; Electron microscopy (Kameda, Y. (805) 191)

SCN (Suprachiasmatic Nucleus); IGL (Intergeniculate Leaflet); Circadian rhythm; Comparative anatomy; vLGN (Ventral Lateral Geniculate Nucleus) (Chevassus-au-Louis, N. (805) 213)

Y1 receptor; Response to novelty; Rearing; NK cells; Granulocyte function (Von Hörsten, S. (806) 282)

Suprachiasmatic nucleus; Circadian rhythm; Serotonin; Cyclic AMP; Brain slice (Prosser, R.A. (808) 31)

Intergeniculate leaflet; In situ hybridization; Photoperiod; Syrian hamster (Jacob, N. (813) 160)

Glucose-responsive; Sulfonylurea; Dopamine; Norepinephrine; GABA; Ventromedial nucleus; Paraventricular nucleus; Arcuate nucleus (Dunn-Meynell, A.A. (814) 41)

Neuropeptide Y antibody
2-deoxy-D-glucose; Food intake; Paraventricular nucleus (He, B. (781) 348)

Neuropeptide Y (NPY)
proDynorphin (proDYN); proEnkephalin (proENK); pro-opiomelanocortin (POMC); 2-deoxy-D-glucose (2-DG); Periphery (Giraudo, S.Q. (792) 136)

Neurophysiology
Schizophrenia; 6-Hydroxydopamine; Mesocortical; In vivo (Harden, D.G. (794) 96)

Neuropil threads
Argyrophilic grains; Alzheimer disease; Axonal transport; Image analysis; Neurofibriilary tangles (Velasco, M.E. (813) 329)

Neuroplasticity
GABA transporter; GAD-65; GAD-67; Astrocyte; Enucleation; Neuron-glia interaction (Yan, X.-X. (783) 63)

Brain injury; Sensorimotor cortex; Sensitive period; Use-dependency; Recovery of function; Rehabilitation; Glutamate (Humm, J.L. (783) 286)

Cerebral ischemia; MAP2; CA1; Recovery of function; Neuroprotection (Dooley, P. (794) 119)

Neuroprotection
DMXB; NMDA receptor; Nicotinic; Ischemia; Mecamylamine (Shimohama, S. (779) 359)

Fastigial nucleus; Conditioning; Electrical stimulation; Focal infarction; Middle cerebral artery occlusion (Reis, D.J. (780) 161)

CA1; CA3; Eliprodil; Hippocampus; Hypoxia; Ischemia; Neuronal death; *N*-Methyl-D-aspartate; NR2B; Stroke (Reyes, M. (782) 212)

Hypoxia; Hippocampal slice; Ischemic tolerance; Gerbil (Tokunaga, H. (784) 316)

Repetitive hypoxia; Hypothermia; Hippocampal slice; DC-potential (Greiner, C. (786) 267)

Dopamine; DA receptor; Trophic factor; Purification (Ling, Z.D. (791) 137)

Corticosterone; Hippocampal culture; Neurotoxicity; Zinc (Sunanda, (791) 295)

Cerebral ischemia; MAP2; CA1; Recovery of function; Neuroplasticity (Dooley, P. (794) 119)

(±)3,4-methylenedioxymethamphetamine; Nitric oxide; Nitric oxide synthase; N^{ω}-nitro-L-arginine (Zheng, Y. (795) 257)

Hippocampus; Glutamate excitotoxicity; Lysosphingolipid; Psychosine; Quisqualate (Hodgson, D.M. (802) 1)

Cortistatin; Kainic acid; Somatostatin receptor; Excitotoxicity; Seizure; Epilepsy (Braun, H. (803) 54)

Middle cerebral artery occlusion; Cerebral blood flow; Autoradiography; Image-processing (Huh, P.W. (804) 105)

Topiramate; Antiepileptic agent; Focal cerebral ischemia; Infarct volume; Rat (Yang, Y. (804) 169)

Dopamine; Neurotoxicity; In vivo microdialysis; Parkinson's disease (Opacka-Juffry, J. (810) 27)

Cyclosporin A; Calcineurin; Mitochondria; Mitochondrial permeability transition; Ischemia (Uchino, H. (812) 216)

Neuroprotective
Cerebral ischemia; AMPA; MR imaging; Experimental stroke (Håberg, A. (811) 63)

Neurosecretion
Glutamate; Competitive antagonism; Excitatory amino acid; Vasopressin; Coagonist hypothesis (Currás, M.C. (789) 181)

4-AP; $[Ca^{2+}]_i$; Glomus cell; K^+–O_2 current; Low $[Ca^{2+}]_o$ plus high $[Mg^{2+}]_o$; Membrane potential; TEA (Lahiri, S. (794) 162)

Neurosteroid
Neuromodulation; Progesterone; Kainate receptor; Cultured spinal neuron; Patch-clamp (Wu, F.-S. (779) 354)

$GABA_A$ receptor; Sulfated steroids; 3α-hydroxy-5α-pregnan-20-one sulfate; Pregnenolone sulfate; Chloride ionophore (El-Etr, M. (790) 334)

Pregnenolone sulfate; Dehydroepiandrosterone sulfate; Learning and memory; σ Receptor; Passive-avoidance performance; Haloperidol; Mouse (Reddy, D.S. (791) 108)

Nitric oxide; Aging; Pregnenolone; Dehydroepiandrosterone; NMDA receptor; Dizocilpine; Learning; Memory; Passive avoidance; Plus-maze (Reddy, D.S. (799) 215)

Steroid hormone; Aging; S100; Immunocytochemistry (Legrand, A. (802) 125)

Pregnenolone sulfate; AMPA receptor; NMDA receptor; Kainate receptor; Steroid (Yaghoubi, N. (803) 153)

Neurosteroid binding site
Chronic ethanol; 5α-Pregnan-3α-ol-20-one; $GABA_A$ receptor (Mehta, A.K. (805) 88)

Neurosteroids
Cholesterol side-chain cleavage enzyme; 17α-Hydroxylase/c17, 20-lyase; 3β-Hydroxysteroid dehydrogenase/Δ^5-Δ^4-isomerase; Messenger RNA expression; Postnatal life; Rat brain; Reverse transcription-polymerase chain reaction (Kohchi, C. (801) 233)

Neurotensin
Neurotensin receptor; Levocabastine; Antinociception; Hypothermia (Tyler, B.M. (787) 78)

Neurotensin receptor; Antinociception; Hypothermia (Tyler, B.M. (792) 246)

Neurotensin receptor
Neurotensin; Levocabastine; Antinociception; Hypothermia (Tyler, B.M. (787) 78)

Neurotensin; Antinociception; Hypothermia (Tyler, B.M. (792) 246)

Brain–gut axis; Cold water restraint; Neurotensin receptor antagonist (Karinch, A.M. (810) 123)

Neurotensin receptor antagonist
Brain–gut axis; Cold water restraint; Neurotensin receptor (Karinch, A.M. (810) 123)

Neurotoxic compound
Neuronal differentiation; Bcl-2; Neurofilament; PC12 (Suzuki, A. (801) 59)

Neurotoxicity
AMPA; Cerebellar granule cell; Rat; Metabolic inhibition; Cyanide, NaCN; DNA fragmentation; Glutamate; $[Ca^{2+}]_i$ (Cebers, G. (779) 194)

Cell culture; Zinc; Calcium; Glutamate; Timm's staining; Cobalt; Co^{2+} (Yin, H.Z. (781) 45)

Neuropathic pain; Clonidine; MK-801; Activity; Rat (Jevtovic-Todorovic, V. (781) 202)

1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine; Goldfish brain; Catecholamine; Amino acidic neurotransmitter (Lucchi, R. (782) 105)

Aluminum; Fluoride; Chronic; Cerebrovasculature; Neocortex; Hippocampus; Rat; Amyloid (Varner, J.A. (784) 284)

Methylmercury; Developing brain; Fetal-type Minamata disease (Sakamoto, M. (784) 351)

Scopolamine; Muscarinic receptor; Excitatory amino acid (Rami, A. (788) 323)

Dentate gyrus; Long-term potentiation; LTP decay; Lead (Pb); In vivo; Hippocampus; Rat; Learning and memory (Gilbert, M.E. (789) 139)

Glutamate; Nitric oxide; Cell respiration; Mitochondria; Glutathione (Almeida, A. (790) 209)

MPTP; Methamphetamine; Core temperature; Striatum; Dopamine; Mice (Moy, L.Y. (790) 264)

Corticosterone; Hippocampal culture; Neuroprotection; Zinc (Sunanda, (791) 295)

Sparse fur; Ornithine carbamoyltransferase deficiency; Quinolinic acid; NMDA receptor (Hopkins, K.J. (797) 209)

Neonate; Hypoxia–ischemia; Cysteine; Sulfur-containing amino acid; Excitatory amino acid (Puka-Sundvall, M. (797) 328)

Zinc; Timm's staining; Hippocampus; Metal chelating agent (Cuajungco, M.P. (799) 97)

Zinc; Kainic acid; Epilepsy; Timm's staining; Hippocampus; Metal chelating agent (Lees, G.J. (799) 108)

Spermine; Spatial learning; Retention; [^{3}H]PK11195 binding; Diazepam (Conway, E.L. (800) 10)

Glutaric acid; Organic acidemia; GABA; Glutamate; Seizure; Turning behavior; Striatum (Lima, T.T.F. (802) 55)

Methamphetamine; Dopamine; Serotonin; Hyperthermia; Rat; Tyrosine hydroxylase; Glial fibrillary acidic protein; Western blot (Fukumura, M. (806) 1)

Glutamate; VIP; Retinal cell culture; cAMP (Shoge, K. (809) 127)

Dopamine; Neuroprotection; In vivo microdialysis; Parkinson's disease (Opacka-Juffry, J. (810) 27)

Serotonin synthesis rate; MDMA; α-methyl-L-tryptophan; Ecstasy (Mück-Šeler, D. (810) 76)

[^{3}H]-DAMGO; Excitotoxin (Ridd, M.J. (814) 26)

Mitochondrium; Superoxide dismutase; Cortical neuron; Glutamate; Glutamate receptor activation (Li, Y. (814) 164)

Neurotoxicity mapping
Neurodegeneration; Propidium iodide; Microtubule-associated protein 2; Selective vulnerability; Organotin compounds (Noraberg, J. (783) 305)

Neurotoxin
3,4-Dihydroxyphenylglycolaldehyde; Mitochondrial permeability transition; Apoptosis; Alzheimer's disease (Burke, W.J. (787) 328)

Exocytosis; Amperometry; Cytosolic Ca; Catecholamine (Liu, J. (799) 55)

Uptake; Mesolimbic system; Monoamine oxidase-B; Electrochemistry; Parkinson's disease (Nakazato, T. (812) 150)

Neurotransmission
Nitric oxide; NO synthases; Soluble guanylylcyclase; Cochlea; Vestibular system (Hess, A. (813) 97)

Neurotransmitter
Angiotensin I-converting enzyme; Insect; Neuropeptide metabolism; Neuropeptide processing; FXPRLamide; Locustamyotropin; Pyrokinin; Pheromone biosynthesis activating neuropeptide (Schoofs, L. (785) 215)

Neuroleptic; Microdialysis; Behavior; Extrapyramidal (O'Connor, W.T. (787) 299)

Glutamatergic system; Ionotropic receptor; Optic tectum; Visual pathway (Pires, R.S. (810) 283)

Neurotransplantation
Parkinson's disease; Dopamine neuron; Apoptosis; Mesencephalon; Neurotrophic factor (Zawada, W.M. (786) 96)

Neurotransporter
Calcium channel; ω-Conotoxin GVIA; Desipramine; Exocytosis; Noradrenaline (Yamazaki, T. (794) 146)

Neurotrophic factor
Astrocyte; S100β; Synaptic plasticity; NAN-190; Hippocampal formation; Electron microscopy (Wilson, C.C. (782) 235)

Fibroblast growth factor-9; Brain; Neuron; Immunohistochemistry (Todo, T. (783) 179)

Parkinson's disease; Neurotransplantation; Dopamine neuron; Apoptosis; Mesencephalon (Zawada, W.M. (786) 96)

Parkinson's disease; Substantia nigra; Immunocytochemistry; GDNF (Lapchak, P.A. (789) 9)

GH3 cell; MPP^+; Cell death (Yoshinaga, N. (794) 137)

Iron; Ferritin; Transferrin; Transferrin receptor; Neuron (Dickinson, T.K. (801) 171)

1321N1 human astrocytoma cells; PC-12 cells; Neurite outgrowth; Mitogen-activated protein kinase (Obara, Y. (806) 79)

Neurotrophin
Blood–brain barrier; Brain; Spinal cord (Pan, W. (788) 87)

Apoptosis; In vitro; TGF-β2; IGF; FGF (Oorschot, D.E. (789) 315)

Kainic acid; Brain-derived neurotrophic factor; trkB receptor; Basal forebrain; Hippocampus; Degeneration (Venero, J.L. (790) 270)

DNA repair; Cell cycle; Programmed cell death; Neuronal cell death (Araki, T. (794) 239)

Adhesion molecule; Glycoprotein; PNS (Walsh, G.S. (798) 184)

Neurotrophin-3
Aldose reductase; Inflammation; Nerve growth factor; Oxidative stress; Substance P; *trkA* (Fernyhough, P. (802) 247)

Neurotrophin
Temporal lobe epilepsy; Septohippocampal neuron; Forebrain cholinergic neuron; Hippocampus (Correia, L. (809) 288)

Aging; Brain-derived neurotrophic factor; trkB; Memory (Croll, S.D. (812) 200)

Glucocorticoid; Corticosteroid; Stress (Schaaf, M.J.M. (813) 112)

Neurotrophin
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Neurotropic factor
Sprouting; S100B; Axon growth; Astrogliosis; Glial-released protein; Hippocampus (McAdory, B.S. (813) 211)

Neutral proteinase
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Calpain; Calpastatin; Calcium; Experimental allergic encephalomyelitis; Multiple sclerosis (Shields, D.C. (794) 68)

Neutrophil
Hookworm-derived recombinant neutrophil inhibitory factor; Cerebral ischemia; CD11b/CD18 integrin; Neuronal damage; Rat (Jiang, N. (788) 25)

Neutrophil depletion
Blood–brain barrier; RP3 monoclonal antibody; Cerebritis; Tissue injury; Cerebrovascular permeability (Lo, W.D. (802) 175)

Neutrophil elastase
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Cerebral circulation; Excitatory amino acid; Theophylline; Nitric oxide (Bari, F. (780) 237)

Cerebral circulation; Cyclic nucleotide (Armstead, W.M. (799) 44)

NMDA receptor; NR1; NR2A; NR2B; Hypoxia (Kim, W.-T. (799) 49)

Newborn piglet
Bacterial meningitis; Hypoglycorrhachia; Hyperglycemia; Cerebral metabolism (Park, W.S. (798) 195)

Hypoxia–ischemia; Hyperglycemia; Cerebral metabolism; Near infrared spectroscopy (Chang, Y.S. (798) 271)

Newborn rat
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Newt
Retina; Regeneration; Glutamate; Immunohistochemistry (Chiba, C. (785) 171)

NFκB
Ischemic stress; Chemokines; Astrocytes; C6 glioma cells (Uehara, T. (790) 284)

Immunocytochemistry; Electron microscopy; Axotomy; Chronic constriction injury; Sciatic nerve; Dorsal root ganglion (Ma, W. (797) 243)

NG108-15 cell
Linopirdine; M-type K^+ current; Acetylcholine; Rat cerebral cortex (Noda, M. (794) 274)

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Colchicine; Nucleus basalis; Cholinergic hypofunction; *trk*; AChE; BDNF (Shaughnessy, L.W. (781) 62)

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1321N1 human astrocytoma cells
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Ni^{2+}
Purkinje cell; Voltage-gated Ca^{2+} channel; Ca^{2+} imaging; Patch clamp recording; ω-Agatoxin-IVA (Watanabe, S. (791) 43)

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Nicotinamide adenine dinucleotide phosphate diaphorase
Adenohypophysis; Cell–cell interaction; Nitric oxide; Nitric oxide synthase (Okere, C.O. (784) 337)

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Nicotinamide adenine dinucleotide (NAD^+)
Poly(ADP-ribose) polymerase (PARP); 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); Adenosine triphosphate (ATP); Benzamide; C57BL/6N mouse (Cosi, C. (809) 58)

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$\alpha 4\beta 2$; β-amyloid; Alzheimer's disease; Cortex (Kihara, T. (792) 331)

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Nicotine chronic
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Nicotine dependence
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Nicotine withdrawal
Nicotine chronic; Hippocampus; Striatum; Mecamylamine (Houdi, A.A. (799) 257)

Nicotinic
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Choline acetyltransferase; Neocortical atrophy; Nissl-staining; *Trans*-synaptic (Meyer, E.M. (786) 252)

Nicotinic acetylcholine receptor
Striatum; Aging; Ischemia; Polymerase chain reaction (Tohgi, H. (791) 186)

Ibogaine mechanism; Anti-addictive agent; Chromaffin cell; Catecholamine release (Mah, S.J. (797) 173)

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Chung model; Morphine; Diabetic neuropathy; Allodynia; Hyperalgesia (Bannon, A.W. (801) 158)

Nicotinic receptor
Immediate early gene; Fos; GABA; Acetylcholine; Directional selectivity (Araki, C.M. (794) 333)

Epibatidine; Fos protein; Immunohistochemistry; Brain; Rat (Watanabe, K.-i. (797) 135)

Synaptic transmission; Methyllycaconitine; Hippocampus; Slice (Alkondon, M. (810) 257)

Nictitating membrane
Classical conditioning; α-Amino-3-hydroxy-5-methylisoxazole-4-propionic acid; 6-Cyano-7-nitroquinoxaline-2,3-dion; Quisqualate receptor; Cerebellum; Autoradiography (Hauge, S.A. (803) 9)

Niemann–Pick type C disease
L-DOPA; Serotonin; Glycine; Tyrosine hydroxylase; Cerebellum (Yadid, G. (799) 250)

Nifedipine
Partial denervation; Motor unit; Rat skeletal muscle; Motor unit territory; L-type Ca^{2+} channels (White, C.M. (779) 125)

Nerve injury-induced hyperalgesia; Partial nerve ligation; SNX-111; SNX-230; Quin 2; Voltage-dependent calcium channel; Nociceptive flexion reflex (White, D.M. (801) 50)

Long-term potentiation; Turtle; Medial cortex; NMDA; AMPA (Muñoz, M.-D. (807) 155)

Nigericin
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Nigral transplant
6-Hydroxydopamine; Striatum; L-DOPA; 5-Hydroxytryptophan; Serotonin; Microdialysis; Rat (Ishida, Y. (788) 207)

Nigrostriatal
Aging; Dopamine; In vivo electrochemisty; Locomotion; Mesolimbic (Hebert, M.A. (797) 42)

Nigrostriatal lesion
6-hydroxydopamine; Microdialysis; Opioid; Striatum; Substantia nigra (Kimmel, H.L. (789) 171)

Nilvadipine
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Nimodipine
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Nipecotic acid
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Nissl-staining
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Nitric oxide
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Glutamate; L-Arginine; Cultured neuron; MK-801; Ketamine (Yamauchi, M. (780) 253)

NO donor; cGMP; Immunocytochemistry; Neuron; Mollusc; *Helix pomatia* (Huang, S. (780) 329)

Trigeminal system; Somatotopic organization; Nerve injury; Trans-synaptic regulation; Transganglionic transport; Horseradish peroxidase (Takemura, M. (781) 78)

Adenohypophysis; Cell–cell interaction; Nicotinamide adenine dinucleotide phosphate diaphorase; Nitric oxide synthase (Okere, C.O. (784) 337)

Cerebral artery; Vasodilatation; Guanylate cyclase; Cyclic GMP; Potassium channel (Onoue, H. (785) 107)

Brain; Mitochondria; Hypoxia; Perinatal (Bolaños, J.P. (787) 117)

Theta rhythm amplitude; ARG; NMMA; Septum; Hippocampus; Urethane-anesthetized rat (Monmaur, P. (787) 165)

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Zinc; EL mouse; Convulsion; Zonisamide; NADPH diaphorase; Hippocampal formation (Nagatomo, I. (789) 213)

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Parkinson's disease; Grafting; 6-Hydroxydopamine-lesioned rat; Nitric oxide synthase; N^{ω}-nitro-L-arginine methylester (L-NAME) (Van Muiswinkel, F.L. (792) 48)

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NO-releasing compound; Hyperalgesia; Nerve injury; Spinal cord; Cyclic GMP (Inoue, T. (792) 263)

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Arterial chemoreceptor; Carotid body; Cyanide; Dopamine; Hyperoxia (Iturriaga, R. (799) 26)

Zinc; Timm's staining; TSQ fluorescence; Hippocampus; Metal chelating agent; Kainic acid; Epilepsy (Cuajungco, M.P. (799) 118)

Neurosteroid; Aging; Pregnenolone; Dehydroepiandrosterone; NMDA receptor; Dizocilpine; Learning; Memory; Passive avoidance; Plus-maze (Reddy, D.S. (799) 215)

Soluble guanylyl cyclase; Cyclic-GMP; *Schistocerca gregaria*; Locust (Elphick, M.R. (800) 174)

Inducible nitric oxide synthase; Rat; Stroke; Middle cerebral artery (Zhang, F. (802) 104)

Blood–brain barrier; Endothelial cell; Transendothelial resistance; Glutathione; Oxidative stress (Hurst, R.D. (802) 232)

Mycoplasma fermentans; Astrocyte; MfGL-II; Choline-containing-glycolipid; Prostaglandin E_2; Protein kinase C; Inflammation; Lactate production (Ben-Menachem, G. (803) 34)

Tetrahydrobiopterin; GTP-cyclohyrolase; Inducible nitric oxide synthase (Barker, J.E. (804) 1)

Angiotensin type-2 receptor; Glutamate; Cortical neuron; Central nervous system (Makino, I. (804) 296)

$5HT_2$ receptor; 7-Nitroindazole; L-NAME (Xu, X. (804) 337)

Periaqueductal gray; Blood pressure; GABA; Enkephalin; Glutamic acid; Hydroxylamine; TRIM; Sodium nitroprusside (Hall, C.W. (805) 69)

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Cyclic GMP; Diurnal rhythm; Medial preoptic area (Pu, S. (808) 310)

Cerebral ischemia; Cerebral blood flow; Hypothermia; Microdialysis; Rat (Sugimura, T. (808) 313)

Antinociception; 60 Hz; ELF magnetic field; Nitric oxide synthase (Kavaliers, M. (809) 50)

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NO synthases; Soluble guanylyl-cyclase; Cochlea; Vestibular system; Neurotransmission (Hess, A. (813) 97)

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Nitric oxide synthase
Adenohypophysis; Cell–cell interaction; Nicotinamide adenine dinucleotide phosphate diaphorase; Nitric oxide (Okere, C.O. (784) 337)

Beta amyloid; Astrocyte; Interleukin-1; Alzheimer's disease (Hu, J. (785) 195)

Nitric oxide; Vestibular compensation; Vestibular nucleus; Prepositus hypoglossi (Anderson, T.V. (787) 311)

Fos; Hypovolemia; In situ hybridization; NADPH diaphorase; Paraventricular nucleus; Polyethylene glycol; Supraoptic nucleus (Ueta, Y. (790) 25)

Oxygen toxicity; NMDA receptor; Glutamate; AMPA receptor (Chavko, M. (791) 75)

Cyclic GMP; Perinatal asphyxia; Hypothermia; Striatum; Rat pup (Loidl, C.F. (791) 303)

Parkinson's disease; Grafting; 6-Hydroxydopamine-lesioned rat; Nitric oxide; N^{ω}-nitro-L-arginine methylester (L-NAME) (Van Muiswinkel, F.L. (792) 48)

μ-Opioid receptor; Substance P; Calcitonin gene-related peptide; Nodose ganglion; Petrosal ganglion; Jugular ganglion; Coexistence; Rat (Ding, Y.-Q. (792) 149)

Traumatic brain injury (TBI); Cerebral ischemia; NO end product; Nitrite/nitrate (NO_x); 2,3-diaminonaphthalene (DAN); Cortex; Hippocampus (Rao, A.M. (793) 265)

(±)3,4-methylenedioxymethamphetamine; Nitric oxide; N^{ω}-nitro-L-arginine; Neuroprotection (Zheng, Y. (795) 257)

Hypoxia; Carotid body; Chemoreception; Immunohistochemistry; Rat (Kusakabe, T. (795) 292)

Suprachiasmatic nucleus; Circadian rhythm; Glutamate; Biological clock (Ferreyra, G.A. (797) 190)

Enzyme activity; Methylmercuric chloride; Mercuric chloride; Thiol compounds; Inhibition (Shinyashiki, M. (798) 147)

NADPH diaphorase; Choline acetyltransferase; Vasoactive intestinal polypeptide; Co-localization; Middle cerebral artery; Sphenopalatine ganglia; Pig (Yu, J.-G. (801) 78)

Nucleus dorsalis; Red nucleus; Microglial reaction; Nitrotyrosine; Neuronal loss (Xu, M. (808) 23)

Antinociception; Nitric oxide; 60 Hz; ELF magnetic field (Kavaliers, M. (809) 50)

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Nitric oxide synthase inhibitor
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Nitrite/nitrate (NO_x)
Traumatic brain injury (TBI); Cerebral ischemia; Nitric oxide synthase (NOS); NO end product; 2,3-diaminonaphthalene (DAN); Cortex; Hippocampus (Rao, A.M. (793) 265)

7-Nitro indazole
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7-Nitroindazole
Glibenclamide; Iberiotoxin; Neuronal nitric oxide synthase (Wang, Q. (793) 187)

Pavlovian conditioning; Learning; Memory; Rat (Maren, S. (804) 155)

$5HT_2$ receptor; L-NAME; Nitric oxide (Xu, X. (804) 337)

3-Nitropropionic acid
Apoptosis; Mitochondria; Huntington's disease; *bcl*-2; *bcl-x*; c-*jun* (Sato, S. (808) 56)

Nitroprusside
Aspartic and glutamic acid; Eating behavior; Nucleus accumbens; Rat (Monda, M. (808) 129)

Nitrotyrosine
Nucleus dorsalis; Red nucleus; Microglial reaction; Nitric oxide synthase; Neuronal loss (Xu, M. (808) 23)

Nitrous oxide
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N^{ω}-nitro-L-arginine
(±)3,4-methylenedioxymethamphetamine; Nitric oxide; Nitric oxide synthase; Neuroprotection (Zheng, Y. (795) 257)

N^{ω}-nitro-L-arginine methylester (L-NAME)
Parkinson's disease; Grafting; 6-Hydroxydopamine-lesioned rat; Nitric oxide; Nitric oxide synthase (Van Muiswinkel, F.L. (792) 48)

NK1 antagonist
Guinea pig; Tooth pulp; Jaw-opening reflex; Immunocytochemistry; Substance P; Primary sensory neuron (Alia, S. (787) 99)

NK cells
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NK cytotoxicity
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Calcitonin gene-related peptide; Substance P; Confocal microscopy; Three dimensional reconstruction (Ladic, L.A. (795) 312)

Circadian rhythm; Suprachiasmatic nucleus; Intergeniculate leaflet; Phase resetting; Tachykinin (Challet, E. (800) 32)

NMDA
Dopamine; Prefrontal cortex; VTA; Stress; Microdialysis (Enrico, P. (779) 205)

Spontaneous augmented breath; Inspiratory neuron; Excitatory amino acid; AP-5; Non-NMDA; CNQX; Iontophoresis (Takeda, M. (781) 194)

Cortical-spreading depression; Long-term potentiation; AMPA (Footitt, D.R. (781) 339)

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Cerebral ischemia; Glutamate; MK-801; Stroke (Werth, J.L. (782) 248)

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5-HT; Raphe; Frontal cortex; WAY-100635; Intracerebral dialysis (Pallotta, M. (783) 173)

Glutamate antagonist; Nociception; Spontaneous pain (Davidson, E.M. (785) 136)

c-*fos*; hsp70; Brain slices; Apoptosis; Translation; Transcription; Neonate; Stress proteins; Immediate early genes (Hasegawa, K. (785) 262)

Dopamine; MK801; Kainic acid lesion: nucleus accumbens (Yoshida, M. (786) 226)

Schizophrenia; Ketamine; Limbic system; Hippocampus; Prefrontal cortex; Cingulate cortex (Duncan, G.E. (787) 181)

Frontal cortex; Striatum; AMPA; Kainate; Basal ganglia; Fos; Attention (Schuller, J.J. (788) 315)

Acetylcholine; Hippocampus; Medial septum; Diagonal band; Handling; Restraint; AMPA; γ-Aminobutyric acid; Muscimol; Bicuculline (Moor, E. (789) 1)

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Locus coeruleus; Voltammetry; Nitric oxide synthase inhibitor (Hall, S. (796) 176)

Dopamine; 6-Hydroxydopamine-lesion; DOPAC; Striatum (Andrés, M.E. (797) 255)

Dopamine release; Kappa-opioid; Cocaine; Ibogaine; Gender (Sershen, H. (801) 67)

Biocytin; Brainstem slice; Dorsal motor nucleus of the vagus; Glutamate; Substance P; Whole-cell recording (Liu, X. (804) 95)

Long-term potentiation; Turtle; Medial cortex; AMPA; Nifedipine (Muñoz, M.-D. (807) 155)

Intracellular calcium; BAPTA; Hippocampal dentate granule cell; Epilepsy patch clamp recording; Visualization (Isokawa, M. (810) 241)

Schizophrenia; Ketamine; Animal model; Clozapine; Haloperidol; Limbic system; Hippocampus (Duncan, G.E. (812) 65)

NMDA antagonist
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Parkinson's disease; 6-hydroxydopamine lesion; Basal ganglia; Genistein; Motor response alteration (Oh, J.D. (813) 150)

NMDA–Ca ionophore complex
Cocaine; Seizures; Dopamine D1 and D2 receptors; β-carboline system (Ushijima, I. (797) 347)

NMDA-R2A
Amacrine cell; Ganglion cell; Cone photoreceptor; Outer segment; Horizontal cell; NMDA-R2B; Calbindin; Parvalbumin; Immunocytochemistry; Colocalization with GABA (Goebel, D.J. (808) 141)

NMDA-R2B
Amacrine cell; Ganglion cell; Cone photoreceptor; Outer segment; Horizontal cell; NMDA-R2A; Calbindin; Parvalbumin; Immunocytochemistry; Colocalization with GABA (Goebel, D.J. (808) 141)

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Long-term potentiation; Insular cortex; Basolateral amygdaloid nucleus; CPP; MK-801 (Escobar, M.L. (779) 314)

DMXB; Neuroprotection; Nicotinic; Ischemia; Mecamylamine (Shimohama, S. (779) 359)

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Subunit; mRNA; Hippocampus; Development; Lead (Guilarte, T.R. (790) 98)

Oxygen toxicity; Glutamate; Nitric oxide synthase; AMPA receptor (Chavko, M. (791) 75)

Neuromodulation; Glycine site; Biphasic effect; Patch clamp; Channel kinetics; Cross-reactivity (Liu, G.J. (791) 290)

c-*fos*; Glaucoma; Hypertensive eye; MK-801 (Chaudhary, P. (792) 154)

Spermidine; Polyamine site; Muscarinic receptor; Metabotropic glutamate receptor; Hippocampus; Working memory (Kishi, A. (793) 311)

Acetylcholine; AF64A; Choline acetyltransferase; Cholinergic neuron; CPP binding; Striatum (Ikarashi, Y. (795) 215)

Tardive dyskinesia; Haloperidol; Striatum; Nucleus accumbens; Vacuous chewing movements' syndrome; Receptor autoradiography (Hamid, E.H. (796) 291)

Sparse fur; Ornithine carbamoyltransferase deficiency; Quinolinic acid; Neurotoxicity (Hopkins, K.J. (797) 209)

NR1; NR2A; NR2B; Hypoxia; Newborn (Kim, W.-T. (799) 49)

Hippocampal neuron; Brain-derived neurotrophic factor; Synaptic transmission; Non-NMDA receptor; Excitatory postsynaptic current (Song, D.-K. (799) 176)

Neurosteroid; Nitric oxide; Aging; Pregnenolone; Dehydroepiandrosterone; Dizocilpine; Learning; Memory; Passive avoidance; Plus-maze (Reddy, D.S. (799) 215)

Hippocampus; Brain slice; AMPA receptor; Synapses; Coefficient of variation (Niu, Y.-P. (800) 253)

Pregnenolone sulfate; Excitotoxicity; Steroids (Weaver Jr., C.E. (803) 129)

Pregnenolone sulfate; AMPA receptor; Kainate receptor; Neurosteroid; Steroid (Yaghoubi, N. (803) 153)

Hippocampal CA1; Chronic morphine; Long-term potentiation; Voltage-dependent calcium channel (Pourmotabbed, A. (804) 125)

Feeding behavior; Dizocilpine; Dopamine receptor antagonist; Adrenal corticotropic hormone; Elevated plus maze (Ninan, I. (812) 157)

Long-term potentiation; Conditioned taste aversion; Insular cortex; CPP; Basolateral amygdaloid nucleus (Escobar, M.L. (812) 246)

Cerebral ischemia; Blood–brain barrier; Polyamines (Preston, E. (813) 191)

Ketorolac; Analgesia; Iontophoresis; Rat (Sotgiu, M.L. (813) 223)

Lactation; cFos; Hippocampus; Suckling (Grove, K.L. (814) 157)

Strychnine-insensitive glycine site; Hippocampus; D-Cycloserine; MK-801; Spatial memory; Radial-arm maze; Rat (Kawabe, K. (814) 226)

NMDA receptor antagonist
Heatstroke; Glutamate; Cerebral blood flow (Yang, Y.-L. (795) 121)

NMDA receptor blocker
Cerebral edema; Fluid-percussion brain injury; Ifenprodil; Memory; Neurologic motor function (Okiyama, K. (792) 291)

NMDA receptor / glycine site
5,7-DCKA; Striatum; Muscle rigidity (Lorenc-Koci, E. (793) 315)

NMDA receptor–ion channel complex
Soman; Norepinephrine release; Cortical slice; Voltage-dependent sodium channel; Voltage-dependent calcium channel (Tang, H.-W. (787) 123)

NMDA receptors
Sigma receptors; Pyramidal cells; Medial prefrontal cortex (Liang, X. (807) 208)

NMDA R1 receptor
Dizocilpine; Drinking; Dehydration; c-*fos* expression (Xu, Z. (784) 91)

NMDA synapse
NO-synthase inhibitor; 7-Nitro indazole; General anesthesia (Motzko, D. (788) 353)

***N*-Methyl-D-aspartate**
Rat; Brain; Cerebral blood flow; Cerebral metabolic rate; Glycine; Antagonist (Morimoto, Y. (779) 170)

Alcohol; Whole cell; Patch-clamp; Physical dependence; Tolerance (Grover, C.A. (782) 43)

Microdialysis; Excitotoxicity; Histology; Rat (Vanický, I. (789) 347)

Ventral subiculum; Hippocampus; Locomotor activity; Afterdischarge; Nucleus accumbens; Electrical stimulation (Ma, J. (793) 112)

***N*-Methyl-D-aspartate receptor**
Allopurinol; Asphyxia; Brain; Lipid peroxidation; Na^+,K^+-ATPase activity (Marro, P.J. (787) 71)

Immediate early gene; Immunocytochemistry; Pain; Spinal cord; Rat (Zhang, R.-X. (795) 282)

Suprachiasmatic nucleus; Circadian rhythm; Immediate early gene; Geniculohypothalamic tract (Edelstein, K. (810) 264)

NMMA
Nitric oxide; Theta rhythm amplitude; ARG; Septum; Hippocampus; Urethane-anesthetized rat (Monmaur, P. (787) 165)

NNC-711
Nipecotic acid; GABA uptake; β-Alanine; Excitatory amino acid receptors (Do Nascimento, J.L.M. (798) 217)

NO
Tetrahydrobiopterin; L-arginine; Dopamine release; NO synthase; Oxygen free radical (Liang, L.P. (800) 181)

Nociceptin
Orphanin FQ; Microdialysis; Striatum; Dopamine; Naloxone (Konya, H. (788) 341)

Orphanin FQ; Analgesia; Antisense; Oligodeoxynucleotide; KOR-3 (Rossi, G.C. (792) 327)

Orphanin FQ; Prolactin; Growth hormone; Opiates (Bryant, W. (807) 228)

Nociceptin receptor
Knockout mice; Water-finding test; Spatial attention (latent learning); Dopamine content (Mamiya, T. (783) 236)

Nociception
Morphine; β-Endorphin; Pain; Analgesia; Synergy; Amygdala; Periaqueductal gray (Pavlovic, Z.W. (779) 158)

Autonomic regulation; Brainstem (Armstrong, C.L. (785) 49)

NMDA; Glutamate antagonist; Spontaneous pain (Davidson, E.M. (785) 136)

Thalamus; Visceral sensation; Somatovisceral convergence; DNIC; Descending and ascending inhibition (Brüggemann, J. (787) 269)

Descending inhibition; Propriospinal; *fos*; Immunohistochemistry (Jones, S.L. (788) 337)

Opioid receptors; Morphine; Lymphocytes; HPA axis; Rat; Neuroimmunology (Mellon, R.D. (789) 56)

Idazoxan; Opioids; Prazosin; Spinal cord; WB4101 (Fang, F. (790) 14)

Analgesia; Periaqueductal gray; Stress; Tail flick; Opioid; Learning; Pavlovian conditioning (Bellgowan, P.S.F. (791) 83)

NADPH-diaphorase; NOS; Induction; PAG; Rat (Rodella, L. (793) 333)

μ-opioid receptor; Substance P; Calcitonin gene-related peptide; Dorsal root ganglion; Trigeminal ganglion; Spinal cord; Rat (Li, J.-L. (794) 347)

Lesion; Quinolinic acid; Spinal trigeminal nucleus; Orofacial; Rat (Luccarini, P. (803) 79)

C-fiber; Nucleus raphe magnus; Diffuse noxious inhibitory controls (Dualé, C. (803) 208)

Analgesia; Morphine; Opioid; Defense; Freezing (Morgan, M.M. (804) 159)

Trigeminal nerve; Lamina II; GABA; Glycine; Inhibitory neurotransmitter; Colocalization (Dumba, J.S. (806) 16)

Lower urinary tract; Spinal cord; Immediate early gene; Capsaicin; K^+-channel-opener (Yu, Y. (807) 11)

Allodynia; Central nervous system; Cerebral inflammation; Hyperalgesia; Lipopolysaccharide (Cahill, C.M. (808) 13)

Caudate–putamen; Globus pallidus; Thermal stimulation; Electrophysiology; Rat (Chudler, E.H. (812) 283)

Nociceptive afferent
Primary afferent depolarization; Serotonin (5-HT); GABA; Capsaicin; Spinal dorsal horn (Khasabov, S.G. (789) 339)

Nociceptive discharge
Parafascicular neuron; Intrathecal administration; Norepinephrine; Serotonin; Aminophylline; Rat (Yang, S.-w. (798) 320)

Nociceptive flexion reflex
Nerve injury-induced hyperalgesia; Partial nerve ligation; SNX-111; SNX-230; Nifedipine; Quin 2; Voltage-dependent calcium channel (White, D.M. (801) 50)

Nociceptive modulation
Parafascicular neuron; Locus coeruleus; Yohimbine; Prazosin; Intrathecal injection; Intracerebroventricular injection (Zhang, C. (784) 116)

Nocifensive reflex
Chronic neuropathy; Carrageenan-induced inflammation; Hyperalgesia; Allodynia; Spinalization (Kauppila, T. (797) 234)

NO donor
Nitric oxide; cGMP; Immunocytochemistry; Neuron; Mollusc; *Helix pomatia* (Huang, S. (780) 329)

Nodose ganglia
Neurocalcin; Calcium-binding protein; Dorsal root ganglia; Trigeminal ganglia; Rat (Iino, S. (781) 236)

Cytokine; Immune-to-brain communication; Autonomic; Immediate-early gene; Immunohistochemistry (Goehler, L.E. (804) 306)

Nodose ganglion
μ-Opioid receptor; Substance P; Calcitonin gene-related peptide; Nitric oxide synthase; Petrosal ganglion; Jugular ganglion; Coexistence; Rat (Ding, Y.-Q. (792) 149)

Calcitonin gene-related peptide; Jugular ganglion; NADPH-diaphorase; Petrosal ganglion; Somatostatin; Substance P; Tyrosine hydroxylase (Ichikawa, H. (800) 312)

Adenosine; A_1 receptor; Dorsal vagal complex; Hypertension (Krstew, E. (802) 61)

Dorsal root ganglion; Nucleus tractus solitarius; Visceral sensory pathways; Dorsal root rhizotomy; Trans-synaptic transport (Weiss, M.L. (812) 227)

NO end product
Traumatic brain injury (TBI); Cerebral ischemia; Nitric oxide synthase (NOS); Nitrite/nitrate (NO_x); 2,3-diaminonaphthalene (DAN); Cortex; Hippocampus (Rao, A.M. (793) 265)

Noise
Auditory brainstem response; Calcium-binding protein; Cochlear nucleus; Quantification; Immunocytochemistry (Idrizbegovic, E. (800) 86)

Noise-induced hearing loss
Cochlea; Reactive oxygen species; Glutathione; Cysteine; Buthionine; Oxothiazolidine carboxylate; Guinea pig (Yamasoba, T. (784) 82)

Acoustic trauma; Reactive oxygen species; High-performance liquid chromatography; Cochlea; Guinea pig (Yamasoba, T. (804) 72)

Nonenzymatic glycation
Streptozotocin-induced diabetes; Optic myelinated fiber; Aminoguanidine; Morphometry (Ino-ue, M. (800) 319)

Non-genomic
Lordosis; GABA; Sexual behavior; Solicitation (Frye, C.A. (808) 72)

Nonlinear association analysis
Temporal lobe epilepsy; Epileptogenesis; Epileptogenic focus; Nonlinear dynamics; Surrogate data (Le Van Quyen, M. (792) 24)

Nonlinear dynamics
Temporal lobe epilepsy; Epileptogenesis; Epileptogenic focus; Nonlinear association analysis; Surrogate data (Le Van Quyen, M. (792) 24)

Non-NMDA
Spontaneous augmented breath; Inspiratory neuron; Excitatory amino acid; NMDA; AP-5; CNQX; Iontophoresis (Takeda, M. (781) 194)

Mechanical allodynia; Mechanical hyperalgesia; Spontaneous pain; NMDA; Substance P (Carlton, S.M. (790) 160)

Non-NMDA antagonist and agonist
Dipsogenic response; NMDA antagonist (Xu, Z. (808) 124)

Non-NMDA receptor
Hippocampal neuron; Brain-derived neurotrophic factor; Synaptic transmission; NMDA receptor; Excitatory postsynaptic current (Song, D.-K. (799) 176)

Non-NMDA type glutamate receptors
Frequency potentiation; Synchronization; $GABA_B$ receptors; Disinhibition; CA3; El mouse (Fueta, Y. (792) 79)

Non-opioid binding site
Dynorphin; ACTH; AtT 20 cell (Yarygin, K.N. (791) 99)

Non-photic entrainment
Serotonin; Circadian rhythm (Antle, M.C. (813) 139)

Nonphotic zeitgeber
Circadian rhythm; Wheel running; Metergoline; Syrian hamster (Mistlberger, R.E. (786) 31)

Nonselective current
Voltage-dependent Ca^{2+} current; GH_3 cell (Wu, S.-N. (812) 133)

Non-social behavior
Interleukin-1β; Aggressive behavior; Body temperature; Corticosterone; Mouse (Cirulli, F. (791) 308)

Non-steroidal anti-inflammatory drug
Immunoreactive substance P; Intraspinal release; *S*-flurbiprofen; *R*-flurbiprofen; Inflammation (Schaible, H.-G. (798) 287)

Noradrenaline
Olfaction; Reuptake; In vitro superfusion; Transporter; Memory/recognition (Shang, Y. (779) 119)

Microdialysis; Hypothalamus; Swimming stress; Acetylcholine; Hyperglycemia (Gotoh, M. (780) 74)

Nucleus paragigantocellularis; Anterograde transport; Excitatory amino acid; Arousal (Van Bockstaele, E.J. (784) 123)

Calcium channel; ω-Conotoxin GVIA; Desipramine; Exocytosis; Neurotransporter (Yamazaki, T. (794) 146)

Hypoxia; Respiration; Rat; Pons; Guanabenz; Post-hypoxic frequency decline; SK&F-86466 (Coles, S.K. (794) 267)

IPSC; Supraoptic neuron; α_2-adrenoceptor (Wang, Y.-F. (807) 61)

Monoamine; Serotonin; Formalin; Pain; Inflammation; Pain modulation (Omote, K. (814) 194)

Noradrenaline release
Microsphere embolism; Microdialysis; Synaptosomes; Synapsin I phosphorylation; Cerebral cortex; Ischemia (Hayashi, H. (783) 241)

Histamine H_3 receptor; Iodophenpropit binding; Hippocampus; Cerebral cortex; Rat (Alves-Rodrigues, A. (788) 179)

Noradrenaline transporter
Noradrenaline uptake; Calcium ion; Calmodulin-dependent protein kinase II; Myosin light chain kinase; PC12 cell (Uchida, J. (809) 155)

Noradrenaline uptake
Cerebral cortex; Ischemia; Microsphere embolism; Na^+/K^+-ATPase; Synaptosome (Hayashi, H. (808) 190)

Noradrenaline transporter; Calcium ion; Calmodulin-dependent protein kinase II; Myosin light chain kinase; PC12 cell (Uchida, J. (809) 155)

Noradrenergic
Locus coeruleus; Modulation; Trigeminal system; Somatosensory cortex (Waterhouse, B.D. (790) 33)

Nucleus tractus solitarius; Medulla; Ventral striatum (Delfs, J.M. (806) 127)

Noradrenergic input
Dendrodendritic synapse; Field potential; Olfaction; Paired-pulse inhibition (Okutani, F. (783) 272)

Noradrenergic neuron
External anal sphincter; Electromyographic recording technique; Adrenoceptor; Locus coeruleus; Cat; Opioid (Abysique, A. (795) 147)

Monoamine oxidase; Enzyme histochemistry; Tyrosine hydroxylase; Fluorescence immunohistochemistry; Locus coeruleus (Hida, T. (814) 209)

Noradrenergic transmission
Genetically epilepsy-prone rat; Superior colliculus; α_1 agonist; α_1 antagonist; α_2 antagonist; Norepinephrine uptake blocker (Yan, Q.-S. (780) 199)

NO-releasing compound
Nitric oxide; Hyperalgesia; Nerve injury; Spinal cord; Cyclic GMP (Inoue, T. (792) 263)

Norepinephrine
Superior cervical ganglion; Cochlea; Dopamine; HPLC; Rat (Gil-Loyzaga, P. (779) 53)

Learning; Attention; Locus coeruleus; Cerebellum; Hippocampus (Gould, T.J. (780) 174)

Vasopressin; Oxytocin; Conditioned fear; Bed nucleus of the stria terminalis; Footshock (Onaka, T. (788) 287)

Somatosensory thalamus; Cocaine; Microdialysis; Sensory system; Serotonin (Rutter, J.J. (798) 7)

Parafascicular neuron; Nociceptive discharge; Intrathecal administration; Serotonin; Aminophylline; Rat (Yang, S.-w. (798) 320)

2-Deoxy-D-glucose; Catecholamine neurons; Adrenal medulla; c-*fos*; Rat; Glucoprivation; Epinephrine (Ritter, S. (805) 41)

Respiration; Hypoglossal motoneuron; Medullary brain slice; Mouse (Selvaratnam, S.R. (805) 104)

Lateral septum; α_2-Adrenoceptor; Catecholamines (Liu, W. (806) 36)

Olfactory receptor neurons; Dopamine; L-Dopa; DOPAC; HPLC (Lucero, M.T. (807) 234)

Cerebral blood flow; Cerebrovascular conductance; Sympathetic stimulation; Adrenergic activity (Diéguez, G. (813) 381)

Glucose-responsive; Sulfonylurea; Neuropeptide Y; Dopamine; GABA; Ventromedial nucleus; Paraventricular nucleus; Arcuate nucleus (Dunn-Meynell, A.A. (814) 41)

Norepinephrine release
Soman; NMDA receptor–ion channel complex; Cortical slice; Voltage-dependent sodium channel; Voltage-dependent calcium channel (Tang, H.-W. (787) 123)

Norepinephrine uptake blocker
Genetically epilepsy-prone rat; Superior colliculus; Noradrenergic transmission; α_1 agonist; α_1 antagonist; α_2 antagonist (Yan, Q.-S. (780) 199)

Norethisterone
Allopregnanolone; Levonorgestrel; Anxiety; Neuroactive steroid; Burying behavior; Rat (Picazo, O. (796) 45)

Noribogaine
Ibogaine; 18-Methoxycoronaridine; Serotonin; In vivo microdialysis; Nucleus accumbens; Striatum; Rat (Wei, D. (800) 260)

Northern hybridization
GAP-43; Cerebellum; GABA; Glutamate; Cerebellar culture; Granule cell; In situ hybridization; mRNA; Development (Console-Bram, L.M. (783) 316)

NOS
PVN; Heart failure; Sympathetic nerve activity (Zhang, K. (786) 219)

Island of Calleja; cGMP; Nitric oxide; Diffusion; Co-localization (De Vente, J. (789) 175)

NADPH-diaphorase; Induction; PAG; Nociception; Rat (Rodella, L. (793) 333)

Nosepoke
Nucleus accumbens; Neuronal firing; Novelty stimulus; Microwire electrode; Novel food consumption (Lee, R.-S. (799) 317)

NOS inhibitor
Hyperglycemia; Cerebral ischemia; Reperfusion; Nitric oxide; Hydroxyl radical; Glutamate; Magnetic resonance imaging; Superparamagnetic iron oxide (Wei, J. (791) 146)

NO synthase
Tetrahydrobiopterin; L-arginine; Dopamine release; NO; Oxygen free radical (Liang, L.P. (800) 181)

Nitric oxide; Soluble guanylyl-cyclase; Cochlea; Vestibular system; Neurotransmission (Hess, A. (813) 97)

NO-synthase inhibitor
7-Nitro indazole; NMDA synapse; General anesthesia (Motzko, D. (788) 353)

Novel food consumption
Nucleus accumbens; Neuronal firing; Nosepoke; Novelty stimulus; Microwire electrode (Lee, R.-S. (799) 317)

Novelty
Inbred rodents; Genetics; Striatum; Amphetamine (Brodkin, E.S. (805) 55)

Rat; Open field; Exploration; In vivo microdialysis; Acetylcholine; Reinforcement; Learning; Arousal; Attention; Aversion (Thiel, C.M. (812) 121)

Novelty stimulus
Nucleus accumbens; Neuronal firing; Nosepoke; Microwire electrode; Novel food consumption (Lee, R.-S. (799) 317)

Noxious heat
Hyperalgesia; Amphibia (Lynn, B. (780) 360)

Noxious immersion
Strychnine; Ketamine; Bicuculline; Convergent neuron; Dorsal horn; Paw; Rat (McGaraughty, S. (784) 63)

3-NPA
Glia; bFGF; Thrombin; GFAP (Deshpande, S.B. (783) 28)

NPY
Plasticity; 5-HT receptor; 5-7-DHT; *p*-Chlorophenylalanine; Cortex; Rat (Compan, V. (795) 264)

Anorexia; Anti-obesity peptide; Hypothalamus; Schedule-feeding (Chance, W.T. (803) 39)

NPY mRNA
Palatable diet; Food restriction; Arcuate nucleus; Rat (Kim, E.-M. (806) 117)

NR1
NMDA receptor; NR2A; NR2B; Hypoxia; Newborn (Kim, W.-T. (799) 49)

NR2A
NMDA receptor; NR1; NR2B; Hypoxia; Newborn (Kim, W.-T. (799) 49)

NR2B
CA1; CA3; Eliprodil; Hippocampus; Hypoxia; Ischemia; Neuronal death; Neuroprotection; *N*-Methyl-D-aspartate; Stroke (Reyes, M. (782) 212)

NMDA receptor; NR1; NR2A; Hypoxia; Newborn (Kim, W.-T. (799) 49)

NT-4/5
TrkB; Hypoxic/ischemic; Immunocytochemistry; BDNF (Narumiya, S. (797) 278)

NT2 cell
Acute-phase protein; Amyloid P component; C-reactive protein; hNT neuron; Neuronal culture (Duong, T. (813) 303)

NTera-2
Neuronal; Differentiation; Promoter; cAMP (Fennell, M. (799) 243)

N18TG2 cells
Heat shock; Cyclic AMP (cAMP); Heat shock protein 72 (HSP72); Heat shock cognate protein 70 (HSC70); Quercetin (Zensho, H. (790) 278)

N-type voltage-sensitive calcium channel
Neuropathic pain; P-type voltage-sensitive calcium channel; Chronic constriction injury; Partial sciatic nerve injury; Thermal hyperalgesia (Yamamoto, T. (794) 329)

Nuclear magnetic resonance spectroscopy
Brain; Creatine kinase; Seizure; White matter; Gray matter (Holtzman, D. (783) 19)

Nucleolus-like body
Cone pedicles; Horizontal cells; Synaptic plasticity; Cytochalasin D; Teleosts retina; Light- and dark-adaptation; Cytoskeleton (De Juan, J. (792) 173)

Nucleoside
Fibroblast; Adenosine; Ciliary ganglion neuron (Wakade, A.R. (788) 69)

Nucleus accumbens
Event-related potential; Hippocampus; Neocortex; Amygdala; N1; P2; Reward; Attention (Ehlers, C.L. (780) 138)

Serotonin; Dopamine; Morphine; Cocaine; Microdialysis (Willins, D.L. (781) 291)

MDMA; Dopamine; Serotonin; GABA (Obradovic, T. (785) 1)

Paraventricular nucleus of the thalamus; Prefrontal cortex; Rat; Striatum; Thalamus (Bubser, M. (787) 304)

Ventral Pallidum; Amygdala; Opioid; DAMGO; Tachykinin; Substance P; Excitatory amino acid; Glutamate; Neuromodulation (Mitrovic, I. (792) 193)

Ventral subiculum; Hippocampus; Locomotor activity; Afterdischarge; *N*-methyl-D-aspartate; Electrical stimulation (Ma, J. (793) 112)

Alcohol; Opioid; Selectively bred rat lines; Enkephalin; Preproenkephalin mRNA; In situ hybridization (Li, X.-W. (794) 35)

Microdialysis; Feeding behaviour; Post-feeding; Dopamine (Kaneyuki, H. (794) 166)

Fear-potentiated startle; Amygdala; Dopamine D_1 receptor; SCH 23390; Mesoamygdaloid DA (Lamont, E.W. (795) 128)

NMDA receptor; Tardive dyskinesia; Haloperidol; Striatum; Vacuous chewing movements' syndrome; Receptor autoradiography (Hamid, E.H. (796) 291)

Shell and core of nucleus accumbens; Efferent projection; Biotinylated dextran amine; Ventral striatum; Autonomic nervous system (Usuda, I. (797) 73)

Brain; Microdialysis; Dopamine; Acetylcholine; Feeding behavior; Galanin; Neuropeptide Y; Paraventricular nucleus; Hypothalamus; Microinjection (Rada, P. (798) 1)

Dopamine; $GABA_A$ receptor; $GABA_B$ receptor; Ventral tegmental area; Fast-cyclic voltammetry; Heroin self-administration (Xi, Z.-X. (798) 156)

Glycine; Ventral pallidum; Glutamate; Schizophrenia; Sensorimotor gating (Kretschmer, B.D. (798) 204)

Neuronal firing; Nosepoke; Novelty stimulus; Microwire electrode; Novel food consumption (Lee, R.-S. (799) 317)

Ibogaine; Noribogaine; 18-Methoxycoronaridine; Serotonin; In vivo microdialysis; Striatum; Rat (Wei, D. (800) 260)

Behavior; Caudate nucleus; Cingulate cortex; Cocaine; Genotype (Baumann, M.H. (804) 316)

Dopamine; GABA; Locomotor activity; Conditioned reward; Ventral pallidum (Fletcher, P.J. (805) 29)

Aspartic and glutamic acid; Eating behavior; Nitroprusside; Rat (Monda, M. (808) 129)

Dopamine; D1 antagonist; Prefrontal cortex; Self-stimulation; Brain-stimulation reward; Rat (Duvauchelle, C.L. (811) 57)

Dopamine; (1*S*,3*R*)-ACPD; Excitatory amino acid; Metabotropic glutamate receptor; Locomotor activity; Amphetamine (Meeker, D. (812) 260)

Lewis rat; Fisher 344 rat; Dopamine receptor; Dopamine transporter (Flores, G. (814) 34)

Dopamine; Locomotion; Amphetamine; Protein kinase C; Dopamine release (Browman, K.E. (814) 112)

Corticosterone; Mesocorticolimbic dopamine system; Medial prefrontal cortex; Caudate-putamen; Shell; cocaine (Ikemoto, S. (814) 171)

Nucleus ambiguus
Vagus nerve; Anastomosis; Heteroconnection; Supernumerary; Dendritic sprouting (Chang, S.-T. (805) 144)

Rhythm generation; Ventrolateral medulla; Ventral respiratory group; Propriobulbar neuron; Medulla oblongata (Sun, Q.-J. (809) 204)

Nucleus basalis
Colchicine; Cholinergic hypofunction; *trk*; AChE; NGF; BDNF (Shaughnessy, L.W. (781) 62)

Nucleus basalis magnocellularis
AMPA; Pirenzepine; Gallamine; Acetylcholine; Somatosensory cortex; Rat (Raevsky, V.V. (782) 324)

Excitotoxicity; Quisqualic acid; Nerve growth factor; Choline acetyltransferase; Low-affinity nerve growth factor receptor (Winkler, J. (788) 1)

Nucleus dorsalis
Red nucleus; Microglial reaction; Nitric oxide synthase; Nitrotyrosine; Neuronal loss (Xu, M. (808) 23)

Nucleus magnocellularis
Deafferentation; Cell death; Auditory system; Cochlear nucleus; Ribosome (Hyson, R.L. (809) 214)

Nucleus magnocellularis of medulla
REM sleep; Atonia; Glutamate; Nucleus paramedianus of medulla; Pontine inhibitory area; In vivo microdialysis (Kodama, T. (780) 178)

Nucleus of diagonal band
Lateral hypothalamic area; Zona incerta; Medial septal nucleus; Spinal cord; True-blue; Diamidino yellow; Retrograde tracer; Anterograde tracer; Melanin-concentrating hormone; Neuropeptides (Bittencourt, J.C. (805) 1)

Nucleus of the solitary tract
Devazepide; Central nucleus of the amygdala; Paraventricular nucleus of the hypothalamus; Arcuate nucleus; Fasting (Wang, L. (791) 157)

Pontine parabrachial nucleus; Area postrema; Emetic drug; GLP-1; Satiety; Anorexia (Thiele, T.E. (801) 164)

Central nucleus of the amygdala; DAMGO; Naltrexone; Food intake (Giraudo, S.Q. (802) 184)

Nucleus of the Tractus Solitarius
Pontine respiratory group; Bötzinger complex; Neural pathway; Respiration (Zheng, Y. (782) 113)

Nucleus paragigantocellularis
Anterograde transport; Noradrenaline; Excitatory amino acid; Arousal (Van Bockstaele, E.J. (784) 123)

Morphine tolerance and dependence; Single unit recording; Morphine; Naloxone; Opiate withdrawal (Haghparast, A. (814) 71)

Nucleus paramedianus of medulla
REM sleep; Atonia; Glutamate; Nucleus magnocellularis of medulla; Pontine inhibitory area; In vivo microdialysis (Kodama, T. (780) 178)

Nucleus pontis oralis
Rat; Carbachol; Acetylcholine; Pedunculopontine tegmental nucleus; REM sleep; Electroencephalogram; Cortex; Hippocampus (Kinney, G.G. (809) 307)

Nucleus raphe magnus
Sex difference; Pain modulation; Analgesia; Locomotion; Opioid (Boyer, J.S. (796) 315)

Nociception; C-fiber; Diffuse noxious inhibitory controls (Dualé, C. (803) 208)

Nucleus reticularis pontis caudalis
Startle; Corticotropin releasing hormone; Fear (Birnbaum, S.G. (782) 318)

Nucleus rotundus
Glutamate; Parvalbumin; Immunohistochemistry; Birds; Tectum; Nucleus triangularis; Ectostriatum; Heterogeneity; Dorso–ventral gradient (Theiss, C. (785) 114)

Nucleus tractus solitarii
Baroreceptor reflex; Angiotensin II; Angiotensin III; Angiotensin AT_1 receptor; Angiotensin AT_2 receptor; Losartan; PD-123319; Amastatin; Rat (Luoh, H.F. (782) 73)

Central 5-HT_3 receptor; Cardiopulmonary reflex (Pires, J.G.P. (791) 229)

Parasympathetic; Cardiovascular (Neff, R.A. (792) 277)

c-Fos; Learning; Lithium chloride; Aversion conditioning; Amygdala (Schafe, G.E. (800) 40)

Medulla; Noradrenergic; Ventral striatum (Delfs, J.M. (806) 127)

Brainstem; Microdialysis; Acetylcholine; Glutamate; Baroreceptor (Ashworth-Preece, M.A. (806) 287)

Dorsal root ganglion; Nodose ganglion; Visceral sensory pathways; Dorsal root rhizotomy; Trans-synaptic transport (Weiss, M.L. (812) 227)

Motor cortex; Ventrolateral medulla; Fos protein; Biotinylated dextran; Rat (Ba-M'Hamed, S. (813) 411)

Amygdala; Inhibitory avoidance; Memory; Bombesin; Reversible inactivation (Rashidy-Pour, A. (814) 127)

Nucleus triangularis
Glutamate; Parvalbumin; Immunohistochemistry; Birds; Tectum; Nucleus rotundus; Ectostriatum; Heterogeneity; Dorso–ventral gradient (Theiss, C. (785) 114)

Nystatin perforated patch clamp
Taurine; Sacral dorsal commissural nucleus; Acutely dissociated neurons; Chloride current; Strychnine-sensitive glycine receptor (Wang, D.-S. (792) 41)

NZB
Radial-arm maze; BXSB; C57BL/6; Inbred mice; Working memory; Reference memory; Spatial; Learning; Memory load; Win-shift (Hyde, L.A. (785) 236)

O

Obese gene product
Neuropeptide Y; Triglyceride; Free fatty acid; Anorexia; Cachexia; Leptin receptor (Chance, W.T. (803) 27)

Obesity
Zucker rat; Third ventricle; Food intake (Donahey, J.C.K. (779) 75)

Zucker; Vasopressin; Oxytocin; Leptin; Neuropeptide Y (Yarnell, D.O. (785) 80)

Leptin; Leptin receptor; OB protein; OB-R; Thalamus; Hypothalamus; Piriform cortex; Choroid plexus; Concentration of hydrogen ions (Corp, E.S. (789) 40)

Hypothalamus; Food deprivation; Neuron (Huang, X.-F. (799) 307)

Fos; Diet-resistance; Paraventricular nucleus; Ventromedial nucleus; Dorsomedial nucleus; Arcuate nucleus (Levin, B.E. (808) 317)

Human hypothalamus; Appetite regulation; Y1 receptor; Y2 receptor; Y5 receptor; mRNA Analysis; Radioligand binding (Statnick, M.A. (810) 16)

Object recognition
Microdialysis; Y-maze; Exploration (Giovannini, M.G. (784) 218)

OB protein
Leptin; Leptin receptor; OB-R; Obesity; Thalamus; Hypothalamus; Piriform cortex; Choroid plexus; Concentration of hydrogen ions (Corp, E.S. (789) 40)

OB-R
Leptin; Leptin receptor; OB protein; Obesity; Thalamus; Hypothalamus; Piriform cortex; Choroid plexus; Concentration of hydrogen ions (Corp, E.S. (789) 40)

Occlusion model
Real-time measurement; Glutamate level (Caragine, L.P. (793) 255)

O_2 chemoreception model
Carotid body; Ca^{2+} channel-blocker; Cytochrome a_3^{2+}; Intracellular Ca^{2+} store; Metabolic inhibition (Mokashi, A. (803) 194)

Oculomotor system
Motor system and sensorimotor integration; Saccadic eye movement; Craniocentric representation; Supplementary eye field; Rhesus monkey (Tehovnik, E.J. (795) 287)

Odor representation
Insect olfactory system; Glomeruli; Activity mapping; Autoradiography (Distler, P.G. (805) 263)

6-OHDA
Hypoxia; Substantia nigra; Hydroxyl radical; Oxidative stress; Parkinson's disease; Cytochrome P450 (Dajas-Bailador, F.A. (813) 18)

6-OHDA lesion
Striatum; Substantia nigra; L-DOPA; Lidocaine; Turning behavior (Mura, A. (808) 48)

8-OH-DPAT
5-Hydroxytryptamine$_{1A}$; Serotonin receptor; Hypothermia; Selective breeding; Cortex; Autoradiography (Knapp, D.J. (782) 1)

Serotonin; Medial preoptic area; Dopamine; Microdialysis; Male sexual behavior (Lorrain, D.S. (790) 217)

7-OH-DPAT
Alkylating agent; D_2-like receptor; D_3 receptor; Dopamine; EEDQ; Fluphenazine; Autoradiography; Accumbens; Islands of Calleja (Yeghiayan, S.K. (792) 324)

8-OH-DPAT
Lordosis behavior; Female rat; Hormone; Serotonin (Jackson, A. (796) 299)

Serotonin; Fenfluramine; Fluoxetine; TFMPP; Food intake (Currie, P.J. (800) 62)

7-OH-DPAT
D_3 dopamine receptor; Nafadotride; [^{14}C]-2-deoxyglucose; Local cerebral glucose utilization; Rat; Brain (Levant, B. (812) 193)

8-hydrox-2-(di-*n*-propylamin)-tetralin (8-OH-DPAT)
Absence epilepsy; WAG/RIJ rat; Serotonin; Spike-wave discharge; 5-HT$_{1A}$ receptor (Gerber, K. (807) 243)

7-OH-DPAT ((±) 7-hydroxy-2-(di-*n*-propylamino)tetralin HBr)
Dopamine; Dopamine receptor; A 68930 ((1*R*,3*S*)-1-aminoethyl-5,6-dihydroxy-3-phenylisochroman HCl); Thermoregulation; Locomotor activity; Rat (Salmi, P. (781) 188)

2OH-saclofen
GABA$_B$ receptor; Supraoptic neuron; Baclofen; Extracellular recording (Ibrahim, N. (813) 88)

Okadaic acid
Tau; Microtubule; Protein kinase A; Lithium; Osmotic stress (Xie, H.-q. (798) 173)

Old World monkey
Visual system; Accessory optic system; Immunocytochemistry (Nakagawa, S. (809) 198)

Oleic acid
Glycerol; Diacylglycerol; Phospholipid; Nerve growth factor; PC12 cell (Li, J. (803) 44)

Olfaction
Noradrenaline; Reuptake; In vitro superfusion; Transporter; Memory/recognition (Shang, Y. (779) 119)

Dendrodendritic synapse; Field potential; Noradrenergic input; Paired-pulse inhibition (Okutani, F. (783) 272)

Calbindin-D28k; Calcium-binding protein; Immunocytochemistry (García-Ojeda, E. (789) 101)

Viscera; Behavior; Motivation; Rat; Anterograde tracer (Ruggiero, D.A. (799) 159)

Dentate gyrus; Fast wave; Organic solvent; Phytochemical; Pyriform (piriform) cortex; Rhinencephalon (Zibrowski, E.M. (800) 207)

NADPH-d histochemistry; Nitric oxide; Crustacea (Johansson, K.U.I. (807) 237)

Reflex ovulation; Pheromones; Sex differences; Copulation; Hypothalamus; GnRH (Gill, C.J. (811) 21)

Olfactory bulb
Alzheimer's disease/pa; Growth cone associated protein; Olfactory nerve; Amyloid beta protein precursor (Struble, R.G. (780) 129)

Glomerulus; Mitral cell; Morphometry; Rabbit; Rat (Royet, J.-P. (788) 35)

Alzheimer's disease; Acetylcholinesterase; Cholinergic structures; Amyloid immunohistochemistry (Kovacs, I. (789) 167)

Calcium-binding protein; Neurocalcin; Specific cell marker (Briñón, J.G. (795) 204)

Olfactory cortex
Inhibition; Epilepsy; Seizure; Kindling (Löscher, W. (800) 21)

Olfactory nerve
Alzheimer's disease/pa; Growth cone associated protein; Olfactory bulb; Amyloid beta protein precursor (Struble, R.G. (780) 129)

Olfactory receptor neurons
Dopamine; Norepinephrine; L-Dopa; DOPAC; HPLC (Lucero, M.T. (807) 234)

Olfactory system
Manganese; Synaptic neurotransmission; Amygdala (Takeda, A. (811) 147)

Olfactory tubercle
Aging; Autoradiography; Bed nucleus of the stria terminalis; Caudate–putamen; Ventromedial hypothalamic nucleus; Rat brain (Arsenijevic, Y. (785) 167)

Oligodendrocyte
Adrenomedullin; $[Ca^{2+}]_i$; Calcitonin gene-related peptide; Dual signaling; KG-1C (Uezono, Y. (786) 230)

N-acetylaspartylglutamate; Microglia; Alzheimer's disease; Huntington's disease; Excitatory amino acid; Peptide (Passani, L. (794) 143)

Dog; Aging; Tau; Amyloid; Phosphorylation; Neuron; Plaque (Wegiel, J. (802) 259)

cPLA2; Muscarinic receptor; Signal transduction; Arachidonic acid; Glia (Lautens, L.L. (809) 18)

Oligodeoxynucleotide
Orphanin FQ; Nociceptin; Analgesia; Antisense; KOR-3 (Rossi, G.C. (792) 327)

Olivocerebellar system
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Ondansetron
ACh release; 5-HT$_3$ receptor; Potassium channel blocker; GABA$_A$ receptor; Entorhinal cortex (Díez-Ariza, M. (801) 228)

Ontogeny
Wasting disorder; Failure to thrive; Feeding; Food deprivation; Gene expression; Hypothalamus; 5-Hydroxytryptamine (Jahng, J.-W. (790) 67)

Drug abuse; Excitatory amino acid; Kynurenine; Monoamine (Rassoulpour, A. (802) 111)

Open-channel block
Neuronal nicotinic receptor; Bullfrog sympathetic ganglia; Blood pressure (Shen, W.-X. (788) 118)

Open field
NMDA receptor; AP5; Hippocampus; Spatial memory; Radial-arm maze; Rat (Kawabe, K. (781) 300)

Prelimbic medial prefrontal cortex; Behavioral sensitization; Locomotion; Sniffing; Cocaine (Tzschentke, T.M. (795) 71)

Stress experience; Footshocks; Behaviour; Rats; Naloxone; Emotional stimulus (Van den Berg, C.L. (799) 6)

Rat; Exploration; In vivo microdialysis; Acetylcholine; Reinforcement; Learning; Novelty; Arousal; Attention; Aversion (Thiel, C.M. (812) 121)

Open field study
Ataxia; Cerebellar mutant mice; D-cycloserine; D-serine ethylester; Glycine-binding site (Saigoh, K. (808) 42)

Operant responding
RO19-4603; Alcohol; Alcohol-preferring (P) rat; Benzodiazepine antagonist; TBPS (June, H.L. (784) 256)

Opiate
Endomorphin 1; Endomorphin 2; Vagal afferent; Bradycardia; Hypotension; μ-Opiate receptor (Kwok, E.H. (803) 204)

Cannabinoid; Δ^9-Tetrahydrocannabinol; Perinatal exposure; Intravenous morphine self-administration; Opioid neuron; Opioid receptor; Reinforcement; Drug addiction (Vela, G. (807) 101)

Visceral; Analgesia; Supraspinal (Yang, S.-w. (808) 101)

Opiate dependence
Morphine; Opiate withdrawal; Opioid receptor; Adenylyl cyclase; G protein; Adenosine 3′,5′-cyclic phosphate (Kaplan, G.B. (788) 104)

Locus coeruleus; Morphine; Naloxone; Brain slice (Bell, J.A. (788) 237)

Opiate drug abuse
Neuroblast division; Cell death/apoptosis; Cerebellar granule cell; Naloxone; μ-Opioid receptor (Opanashuk, L.A. (804) 87)

Opiate receptor
Nitric oxide; GnRH; CRH; Cannabinoid receptor; Opioid; Median eminence; Hypothalamus (Prevot, V. (790) 236)

μ-Opiate receptor
Endomorphin 1; Endomorphin 2; Vagal afferent; Bradycardia; Hypotension; Opiate (Kwok, E.H. (803) 204)

Opiates
Reward; Reinforcement; Addiction; Turning; Locomotion; Rearing; Grooming; Neurokinins; Psychostimulants; Ventral striatum; Rat (Schildein, S. (790) 185)

Blood brain barrier; Bradykinin agonist; Drug delivery; Psychopharmacology; Analgesia (Emerich, D.F. (801) 259)

Orphanin FQ; Nociceptin; Prolactin; Growth hormone (Bryant, W. (807) 228)

Opiate tolerance
Oxytocin; PreproCCK mRNA expression; Salt loading (Munro, G. (780) 190)

Opiate withdrawal
Morphine; Opiate dependence; Opioid receptor; Adenylyl cyclase; G protein; Adenosine 3′,5′-cyclic phosphate (Kaplan, G.B. (788) 104)

Locus coeruleus; Opioid withdrawal; Cerebral glucose metabolism; Central amygdala; Opioid abstinence; Rat; Intracerebral injections; Methylnaloxonium (Kimes, A.S. (814) 1)

Morphine tolerance and dependence; Nucleus paragigantocellularis; Single unit recording; Morphine; Naloxone (Haghparast, A. (814) 71)

Opioid
Food restriction; c-Fos; Feeding (Carr, K.D. (779) 26)

Antinociception; Pain; Amygdala; Periaqueductal gray; Rostral medulla; Tail flick; Heart rate; Rat; Anesthesia (Helmstetter, F.J. (779) 104)

RU-486; Stress; Proenkephalin; CRH; mRNA; Hypothalamus (García-García, L. (786) 215)

6-hydroxydopamine; Microdialysis; Nigrostriatal lesion; Striatum; Substantia nigra (Kimmel, H.L. (789) 171)

Idazoxan; Nociception; Prazosin; Spinal cord; WB4101 (Fang, F. (790) 14)

Nitric oxide; GnRH; CRH; Opiate receptor; Cannabinoid receptor; Median eminence; Hypothalamus (Prevot, V. (790) 236)

Analgesia; Periaqueductal gray; Nociception; Stress; Tail flick; Learning; Pavlovian conditioning (Bellgowan, P.S.F. (791) 83)

Corneal epithelium; Limbal epithelium; Conjunctival epithelium; [Met^5]-enkephalin; Preproenkephalin; Eye; Cell renewal mRNA; In situ hybridization (Zagon, I.S. (792) 72)

Ventral Pallidum; Amygdala; Nucleus accumbens; DAMGO; Tachykinin; Substance P; Excitatory amino acid; Glutamate; Neuromodulation (Mitrovic, I. (792) 193)

Alcohol; Selectively bred rat lines; Enkephalin; Preproenkephalin mRNA; In situ hybridization; Nucleus accumbens (Li, X.-W. (794) 35)

Interleukin; Tumor necrosis factor; Leptin; Neuropeptide Y; Glucocorticoid; Corticotropin; Endotoxin; Nervous system; Cerebellum; Hippocampus; Hypothalamus; Feeding; Food intake; RNase protection; Competitive RT–PCR (Gayle, D. (795) 77)

External anal sphincter; Electromyographic recording technique; Noradrenergic neuron; Adrenoceptor; Locus coeruleus; Cat (Abysique, A. (795) 147)

Sex difference; Pain modulation; Analgesia; Nucleus raphe magnus; Locomotion (Boyer, J.S. (796) 315)

Morphine; Diazepam; Benzodiazepine; μ-Opioid receptor; Constitutive receptor; Tolerance; Brain region; Spinal cord; Peripheral tissue; CNS (Tejwani, G.A. (797) 305)

Cornea; Epithelium; Wound healing; [Met^5]-enkephalin; Rat; Eye (Zagon, I.S. (798) 254)

Brainstem; In vitro; Newborn rat; Respiration; Temperature; Age (Takita, K. (800) 308)

Intracellular Ca^{2+}; Ca^{2+} store; DADLE; IP_3; δ receptor; Kinase (Yoon, S.H. (802) 9)

Analgesia; Morphine; Defense; Freezing; Nociception (Morgan, M.M. (804) 159)

Prodynorphin gene; Human; Promoter; Transcription (Telkov, M. (804) 284)

Palatability; Feeding; Reward; c-Fos; Naltrexone (Park, T.H. (805) 169)

Glutamate; Hippocampus; Naloxone; Naltrindole; Pentylenetetrazol (PTZ) kindling (Schroeder, H. (811) 40)

cGMP; Alpha-2 adrenergic agonist; Dexmedetomidine; Fentanyl; G protein; Pertussis toxin; Mouse; Cerebellum (Vulliemoz, Y. (813) 26)

Cyclic nucleotide; Hypoxia; Glia (Armstead, W.M. (813) 398)

c-Fos; JunB; Serotonin receptor (Frankel, P.S. (814) 186)

Opioid abstinence
Locus coeruleus; Opioid withdrawal; Opiate withdrawal; Cerebral glucose metabolism; Central amygdala; Rat; Intracerebral injections; Methylnaloxonium (Kimes, A.S. (814) 1)

Opioidergic system
[^{3}H]DAMGO; [^{3}H]DADLE; [^{3}H]U69,593; Infarct extension; Penumbra (Boutin, H. (787) 237)

Opioid-hypothermia
Hypothalamic neuron; Temperature sensitivity; Opioid receptor agonist and antagonist; Rat (Yakimova, K.S. (786) 133)

Opioid neuron
Cannabinoid; Δ^9-Tetrahydrocannabinol; Perinatal exposure; Intravenous morphine self-administration; Opiate; Opioid receptor; Reinforcement; Drug addiction (Vela, G. (807) 101)

Opioid peptide
Analgesia; Formalin test; Naloxone; Rat (Kang, W. (792) 133)

Opioid receptor
Morphine; Opiate dependence; Opiate withdrawal; Adenylyl cyclase; G protein; Adenosine 3′,5′-cyclic phosphate (Kaplan, G.B. (788) 104)

Aging; Spinal cord (Hoskins, D.L. (791) 299)

Calcitonin gene-related peptide; Spinal release; Tonic inhibitory control; Polyarthritis; Intrathecal perfusion (Ballet, S. (796) 198)

Cornea; Enkephalin; Epithelium; Eye; Wound healing; Growth factor (Zagon, I.S. (803) 61)

Cannabinoid-receptor; Adenylyl cyclase; GTP-binding protein; Desensitization; Pertussis toxin (Shapira, M. (806) 26)

Cannabinoid; Δ^9-Tetrahydrocannabinol; Perinatal exposure; Intravenous morphine self-administration; Opiate; Opioid neuron; Reinforcement; Drug addiction (Vela, G. (807) 101)

δ-Opioid receptor
Ethanol; Conditioned place preference paradigm; Foot shock stress; Rewarding effect; μ-Opioid receptor (Matsuzawa, S. (803) 169)

***μ*-Opioid receptor**
Baclofen; DAMGO; Estrogen; G-protein; GTPγS (Cunningham, M.J. (791) 341)

Substance P; Calcitonin gene-related peptide; Nitric oxide synthase; Nodose ganglion; Petrosal ganglion; Jugular ganglion; Coexistence; Rat (Ding, Y.-Q. (792) 149)

Morphine; Diazepam; Opioid; Benzodiazepine; Constitutive receptor; Tolerance; Brain region; Spinal cord; Peripheral tissue; CNS (Tejwani, G.A. (797) 305)

Ethanol; Conditioned place preference paradigm; Foot shock stress; Rewarding effect; δ-Opioid receptor (Matsuzawa, S. (803) 169)

Opiate drug abuse; Neuroblast division; Cell death/apoptosis; Cerebellar granule cell; Naloxone (Opanashuk, L.A. (804) 87)

Opioid receptor agonist and antagonist
Hypothalamic neuron; Temperature sensitivity; Opioid-hypothermia; Rat (Yakimova, K.S. (786) 133)

Opioid receptor effect
Pentylenetetrazole kindling; c-fos; In situ hybridization; Endogenous opioid peptide (Erdtmann-Vourliotis, M. (792) 299)

Opioid receptors
Morphine; Lymphocytes; HPA axis; Nociception; Rat; Neuroimmunology (Mellon, R.D. (789) 56)

Opioid withdrawal
Locus coeruleus; Opiate withdrawal; Cerebral glucose metabolism; Central amygdala; Opioid abstinence; Rat; Intracerebral injections; Methylnaloxonium (Kimes, A.S. (814) 1)

Optical recording
ATP receptor; Glutamate receptor; Pain; Primary afferent fiber; Voltage-sensitive dye (Ikeda, H. (812) 81)

Senescence-Accelerated Mouse; Amygdala; Electrophysiology; Slice preparation (Nakanishi, H. (812) 142)

Optic myelinated fiber
Streptozotocin-induced diabetes; Nonenzymatic glycation; Aminoguanidine; Morphometry (Inoue, M. (800) 319)

Optic nerve
Calpain; Optic neuritis; Neutral proteinase; Experimental allergic encephalomyelitis (Shields, D.C. (784) 299)

Optic nerve stimulation
Visual prosthesis; Retinitis pigmentosa; Self-sizing spiral cuff electrode (Veraart, C. (813) 181)

Optic neuritis
Calpain; Optic nerve; Neutral proteinase; Experimental allergic encephalomyelitis (Shields, D.C. (784) 299)

Optic tectum
Sound localization; Auditory-visual integration; Superior colliculus; Pigeon (Lewald, J. (790) 339)

Glutamatergic system; Ionotropic receptor; Neurotransmitter; Visual pathway (Pires, R.S. (810) 283)

Optokinetic nystagmus
Eye movement; Alternating OKN; Binocular rivalry; Dichoptic presentation (Wei, M. (813) 406)

Organic acidemia
Glutaric acid; Neurotoxicity; GABA; Glutamate; Seizure; Turning behavior; Striatum (Lima, T.T.F. (802) 55)

Organic anion exchanger
Blood–CSF-barrier; Choroid plexus epithelial cell culture; Cell polarity; Active transport; Fluid secretion (Hakvoort, A. (795) 247)

Organic solvent
Dentate gyrus; Fast wave; Olfaction; Phytochemical; Pyriform (piriform) cortex; Rhinencephalon (Zibrowski, E.M. (800) 207)

Organophosphorus-induced delayed neurotoxicity
Tau protein; CaM kinase II; Hen; Diisopropyl phosphorofluoridate; Phosphorylation (Gupta, R.P. (813) 32)

Organotin compounds
Neurodegeneration; Neurotoxicity mapping; Propidium iodide; Microtubule-associated protein 2; Selective vulnerability (Noraberg, J. (783) 305)

Organum vasculosum of the lamina terminalis
Central regulation of salivation; Salivary gland; Viral tracing; Subfornical organ; Median preoptic nucleus; Preoptic area; Insular cortex (Hübschle, T. (806) 219)

Ornithine carbamoyltransferase deficiency
Sparse fur; Golgi Kopsch; Sholl analysis (Hopkins, K.J. (797) 167)

Sparse fur; Quinolinic acid; Neurotoxicity; NMDA receptor (Hopkins, K.J. (797) 209)

Ornithine decarboxylase
Traumatic brain injury; Western blotting; Polyamine (Raghavendra Rao, V.L. (783) 163)

Freund's adjuvant arthritis; Circadian rhythms; Lymph nodes; Spleen; Tyrosine hydroxylase; Acetylcholine synthesis (Cardinali, D.P. (789) 283)

Orofacial
Lesion; Quinolinic acid; Spinal trigeminal nucleus; Nociception; Rat (Luccarini, P. (803) 79)

Orphanin FQ
Nociceptin; Microdialysis; Striatum; Dopamine; Naloxone (Konya, H. (788) 341)

Nociceptin; Analgesia; Antisense; Oligodeoxynucleotide; KOR-3 (Rossi, G.C. (792) 327)

Nociceptin; Prolactin; Growth hormone; Opiates (Bryant, W. (807) 228)

Osmoregulation
Fos; Daily cycle; Water deprivation; Water balance; Thirst; *Peromyscus* (Chae, H.E. (791) 1)

Osmotic pump
Psychomotor stimulant; Stereotypy; Animal model; Addiction (Dalia, A.D. (797) 29)

Osmotic stress
Tau; Microtubule; Protein kinase A; Lithium; Okadaic acid (Xie, H.-q. (798) 173)

Osteopetrotic *op / op* mouse
Microglia; Macrophage; M-CSF; Growth factor (Węgiel, J. (804) 135)

Ototoxicity
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Ouabain
Glia; Na^+ pump; Neurons (Monteith, G.R. (795) 325)

Outer hair cells
Peripherin; Intermediate filaments; Type II neurons; Cochlea (Hafidi, A. (805) 181)

Outer segment
Amacrine cell; Ganglion cell; Cone photoreceptor; Horizontal cell; NMDA-R2A; NMDA-R2B; Calbindin; Parvalbumin; Immunocytochemistry; Colocalization with GABA (Goebel, D.J. (808) 141)

Outside-out patch
Torpedo ACh receptor; Protein phosphorylation; Desensitization; Site-directed mutagenesis (Nishizaki, T. (812) 242)

Ovariectomized rat
5-HT_{1A} receptor; 5-$HT_{2A/2C}$ receptor; 5-HT_3 receptor; Lordosis behavior; Ventromedial nucleus (Maswood, N. (802) 98)

Ovariectomy
Middle cerebral artery occlusion; Estrogen; 17β-Estradiol; Ischemia; Sex-dependent mortality (Zhang, Y.-Q. (784) 321)

Calcitonin gene-related peptide; Dorsal root ganglion; Estrogen; Estrogen receptor; Sexual difference (Yang, Y. (791) 35)

GSH; Antioxidant; Progesterone; Oxidative stress; Estrous (Kume-Kick, J. (803) 105)

Oxidative change
Chemiluminescence; MK-801; Iron-induced epilepsy (Küçükkaya, B. (788) 133)

Oxidative damage
Ischemia; Mitochondria; Spreading depression; Anoxic depolarization (Pérez-Pinzón, M.A. (786) 165)

Iron; Glia (Robb, S.J. (788) 125)

Mitochondria; Neurofibrillary tangles; Neuritic plaque; Mitochondrial DNA; Synapse; Neuronal activity; Mutation (Chandrasekaran, K. (796) 13)

Oxidative stress
Apoptosis; DNQX; Hypoxia; Neuron; Trolox (Copin, J.-C. (784) 25)

Trisomy 16 mouse; Cortical primary culture; Western blot analysis; Metallothionein I/II; Hydrogen peroxide; Glutamate receptor stimulation (Scortegagna, M. (787) 292)

Alzheimer's disease; Iron; Metabolism (Smith, M.A. (788) 232)

Excitotoxicity; Glutamate toxicity; Superoxide dismutase (Schwartz, P.J. (789) 32)

Amyloid-β; β protein precursor; Hypoperfusion; Vasculature atrophy (Perry, G. (791) 63)

Mouse; Hypoglycemia; Hydrogen peroxide (Lee, J.E. (795) 10)

Advanced glycation endproduct; Alzheimer's disease; Crosslinking; Hirano body (Münch, G. (796) 307)

Propofol; Ischemia; Reperfusion; Glutathione; Lipid peroxidation (De La Cruz, J.P. (800) 136)

Blood–brain barrier; Endothelial cell; Transendothelial resistance; Glutathione; Nitric oxide (Hurst, R.D. (802) 232)

Aldose reductase; Inflammation; Nerve growth factor; Neurotrophin-3; Substance P; *trkA* (Fernyhough, P. (802) 247)

GSH; Antioxidant; Progesterone; Ovariectomy; Estrous (Kume-Kick, J. (803) 105)

Intracerebral transplantation; PBN; Lazaroid; Culture; Parkinson's disease (Karlsson, J. (805) 155)

Alzheimer's disease; Caspase; Dendritic spine; Mitochondrial transmembrane potential; Phosphatidylserine; Synaptosome (Mattson, M.P. (807) 167)

6-OHDA; Hypoxia; Substantia nigra; Hydroxyl radical; Parkinson's disease; Cytochrome P450 (Dajas-Bailador, F.A. (813) 18)

Oxothiazolidine carboxylate
Cochlea; Reactive oxygen species; Glutathione; Cysteine; Buthionine; Noise-induced hearing loss; Guinea pig (Yamasoba, T. (784) 82)

Oxygen
Chemoreceptor; Glial fibrillary acidic protein; Patch clamp; Potassium channel; Tyrosine hydroxylase (Chou, C.-L. (789) 229)

Paradoxical sleep; REM sleep; Rhythm; Hypothermia; Hyperoxia; Acetylcholine (Arnulf, I. (807) 160)

Oxygen free radical
Cell culture; Cerebral endothelium; Ischemia–reperfusion; Oxypurinol; Superoxide dismutase (Beetsch, J.W. (786) 89)

Tetrahydrobiopterin; L-arginine; Dopamine release; NO; NO synthase (Liang, L.P. (800) 181)

Oxygen toxicity
NMDA receptor; Glutamate; Nitric oxide synthase; AMPA receptor (Chavko, M. (791) 75)

Oxyhemoglobin
Subarachnoid hemorrhage; Cyclooxygenase; Indomethacin; Acetylcholine; Histamine; Cyclooxygenase metabolite; Basilar artery (Tran Dinh, Y.-R. (790) 91)

Oxypurinol
Cell culture; Cerebral endothelium; Ischemia–reperfusion; Oxygen free radical; Superoxide dismutase (Beetsch, J.W. (786) 89)

Oxytocin
Opiate tolerance; PreproCCK mRNA expression; Salt loading (Munro, G. (780) 190)

Microdialysis; Vasopressin; Stress; Hypothalamus (Nishioka, T. (781) 57)

Zucker; Vasopressin; Obesity; Leptin; Neuropeptide Y (Yarnell, D.O. (785) 80)

Autonomic nervous system; Fever; Herpes virus; Hypothalamus; Medulla oblongata; Paraventricular hypothalamic nucleus; Periaqueductal gray matter; Preoptic region; Pseudorabies virus; Raphe magnus; Sympathetic nervous system; Temperature regulation; Viral transneuronal tracing (Smith, J.E. (786) 153)

Vasopressin; Conditioned fear; Norepinephrine; Bed nucleus of the stria terminalis; Footshock (Onaka, T. (788) 287)

Oxytocin hnRNA
Oxytocin mRNA; Pregnancy; Lactation (Douglas, A.J. (782) 167)

Oxytocin mRNA
Oxytocin hnRNA; Pregnancy; Lactation (Douglas, A.J. (782) 167)

Oxytocin receptor
Adrenalectomy; Angiotensin II receptor; AT1; AT2 (Shelat, S.G. (807) 135)

P

P2
Event-related potential; Hippocampus; Neocortex; Amygdala; Nucleus accumbens; N1; Reward; Attention (Ehlers, C.L. (780) 138)

p53
METH; Toxicity; Degeneration (Cadet, J.L. (786) 240)

p53
Hypoxia; Neuron; Death; Apoptosis; Gene (Banasiak, K.J. (797) 295)

p75^{NTR}
Choline acetyltransferase; Calbindin; Calcium-binding protein; Basal forebrain; Neostriatum; Raccoon (Tremere, L. (797) 351)

PAC_1
Pituitary adenylate cyclase-activating polypeptide receptor; PACAP; Suprachiasmatic nuclei; Supraoptic nuclei; Circadian rhythm; In situ hybridization histochemistry (Cagampang, F.R.A. (813) 218)

PACAP
Prolactin; DOPAC; Microdialysis; TIDA neuron; Sheep (Anderson, S.T. (790) 343)

MAPK; Astrocyte; PKC; PKA (Moroo, I. (795) 191)

Pituitary adenylate cyclase-activating polypeptide receptor; PAC_1; Suprachiasmatic nuclei; Supraoptic nuclei; Circadian rhythm; In situ hybridization histochemistry (Cagampang, F.R.A. (813) 218)

Pacemaker
RVLM; Catecholamine; Adrenoceptor; Sympathetic nervous system (Piguet, P. (796) 1)

PAF
ET-18-OCH_3; Heat shock protein; Astrocyte; Apoptosis; DNA fragmentation (Renis, M. (783) 143)

PAG
NADPH-diaphorase; NOS; Induction; Nociception; Rat (Rodella, L. (793) 333)

Pain
Antinociception; Opioid; Amygdala; Periaqueductal gray; Rostral medulla; Tail flick; Heart rate; Rat; Anesthesia (Helmstetter, F.J. (779) 104)

Morphine; β-Endorphin; Analgesia; Synergy; Nociception; Amygdala; Periaqueductal gray (Pavlovic, Z.W. (779) 158)

Hyperalgesia; Mouse; Intrathecal; Substance P; Substance P fragment (Goettl, V.M. (780) 80)

Descending inhibition; Fos; Dorsolateral funiculus; Ventrolateral funilucus; Spinal cord (Wei, F. (782) 136)

Autonomic nervous system; Cardiovascular regulation; Emotion; Defense reaction; Periaqueductal gray matter; Precommissural nucleus; Pseudorabies virus; Stellate ganglion (Jansen, A.S.P. (784) 329)

Windup; Development; Slow excitatory postsynaptic potential (EPSP); *N*-Methyl-D-aspartate (NMDA) receptor (Hamba, M. (785) 66)

Primary afferent; Inflammation; Spinal dorsal horn; Image analysis (Polgár, E. (786) 248)

Glutamate; Aspartate; Formalin test; Periphery; Inflammation (Omote, K. (787) 161)

Hotplate; Writhing; Serotonin; $5\text{-}HT_4$; $5\text{-}HT_3$; Mouse (Espejo, E.F. (788) 20)

N-methyl-D-aspartate receptor; Immediate early gene; Immunocytochemistry; Spinal cord; Rat (Zhang, R.-X. (795) 282)

Chronic stress; Blood pressure; Heart rate; Formalin; ACTH; Parabrachial (Bhatnagar, S. (797) 313)

Allodynia; Capsaicin; Hyperalgesia; Inflammation; Tactile perception; Touch; Vibration (Kauppila, T. (797) 361)

Glutamate; Aspartate; Microdialysis; cGMP; cAMP; Protein kinase; Dorsal horn; Hyperalgesia (Sluka, K.A. (798) 281)

Analgesia; Morphine; Morphine-6β-glucuronide; Periaqueductal gray; Locus coeruleus; Rostral ventromedial medulla (Krzanowska, E.K. (799) 329)

Dorsal root ganglion; Trigeminal ganglion; Spinal cord; Immunohistochemistry (Takiguchi-Hayashi, K. (801) 9)

Sodium channel augmentation; Inflammation; Dorsal root ganglion (Gould III, H.J. (802) 69)

Inflammation; Taste; Sensory neuron; Ion channel; Irritation (Liu, L. (809) 238)

Desensitization; Taste; Pungent; Tachyphylaxis (Liu, L. (809) 246)

Pain modulation; Pharmacology; Allodynia; Rat; Thermal injury (Jones, D.L. (810) 93)

Sprouting; Plasticity; c-*fos* (Shortland, P. (810) 288)

ATP receptor; Glutamate receptor; Optical recording; Primary afferent fiber; Voltage-sensitive dye (Ikeda, H. (812) 81)

Arachidonic acid; Rapid-eye movement (REM) sleep; Locomotor activity (Murillo-Rodríguez, E. (812) 270)

Formalin; Hyperalgesia; Cannabinoid; SR141716A (Strangman, N.M. (813) 323)

Monoamine; Noradrenaline; Serotonin; Formalin; Inflammation; Pain modulation (Omote, K. (814) 194)

Pain modality
Ginseng; Ginsenoside; Analgesia (Mogil, J.S. (792) 218)

Pain modulation
Sex difference; Analgesia; Nucleus raphe magnus; Locomotion; Opioid (Boyer, J.S. (796) 315)

Pharmacology; Allodynia; Pain; Rat; Thermal injury (Jones, D.L. (810) 93)

Monoamine; Noradrenaline; Serotonin; Formalin; Pain; Inflammation (Omote, K. (814) 194)

Paired helical filaments
Ultrastructure; Assembled tau filaments; Scanning transmission electron microscopy; Mass density; Neurodegenerative disorders (Ksiezak-Reding, H. (814) 86)

Paired-pulse facilitation
Feedforward excitation; Current source density; Medial perforant path; Dentate gyrus; CA3 (Wu, K. (797) 35)

Lead; Long-term potentiation; Rat; Hippocampal dentate gyrus (Ruan, D.-Y. (806) 196)

Paired pulse index
GAERS; Low magnesium; Frontal cortex; Hippocampus; Entorhinal cortex (Armand, V. (803) 19)

Paired-pulse inhibition
Dendrodendritic synapse; Field potential; Noradrenergic input; Olfaction (Okutani, F. (783) 272)

Receptor autoradiography; Cerebral ischemia; Photothrombosis; $GABA_A$ receptor; Postlesional reaction (Qü, M. (813) 374)

Palatability
Feeding; Reward; c-Fos; Opioid; Naltrexone (Park, T.H. (805) 169)

Palatable diet
Food restriction; NPY mRNA; Arcuate nucleus; Rat (Kim, E.-M. (806) 117)

Papaverine
Forskolin; Arginine vasopressin; Imidazole; Adenylate cyclase inhibitor; Phosphodiesterase activator; Phosphodiesterase inhibitor; Superior cervical ganglion (Hogan, Y.H. (787) 242)

Hippocampal EEG; Spectral analysis; Intracavernous pressure; Penile erection; Negative feedback inhibition; Rat (Chang, A.Y.W. (788) 160)

Parabrachial
Chronic stress; Blood pressure; Heart rate; Formalin; Pain; ACTH (Bhatnagar, S. (797) 313)

Kölliker–Fuse; Solitarius; Trigeminal; Diving response; Sensory–autonomic integration (Dutschmann, M. (809) 221)

Parabrachial nuclear complex
Respiratory control; Rabbit; DL-homocysteic acid; Apneusis (Mutolo, D. (807) 182)

Parabrachial nucleus
Taste; Brain slice; Sensory processing; Intrinsic property (Kobashi, M. (781) 218)

Acetylcholine; Rostral ventrolateral medulla; Sympathoexcitatory neuron; Pressor response; Scopolamine (Kubo, T. (789) 23)

Gene therapy; Green fluorescent protein; Rat (Chamberlin, N.L. (793) 169)

Brain slice; Sensory processing; Inhibition; Synaptic processing (Kobashi, M. (799) 323)

Paradoxical sleep
Ventromedial nucleus of the hypothalamus; Cardiovascular regulation; Rat (Hirasawa, M. (797) 103)

REM sleep; Rhythm; Oxygen; Hypothermia; Hyperoxia; Acetylcholine (Arnulf, I. (807) 160)

Parafascicular neuron
Locus coeruleus; Nociceptive modulation; Yohimbine; Prazosin; Intrathecal injection; Intracerebroventricular injection (Zhang, C. (784) 116)

Nociceptive discharge; Intrathecal administration; Norepinephrine; Serotonin; Aminophylline; Rat (Yang, S.-w. (798) 320)

Parafascicular nucleus
Intracranial self-stimulation; Memory consolidation process; Two-way active avoidance; Learning and retention; Lateral hypothalamus (Massanés-Rotger, E. (808) 220)

Parallel fiber
Length; Cerebellum; Cerebellar; Rapid Golgi (Huang, C.-m. (801) 211)

Paraoxonase 1 (PON1)
Genetic association; Parkinson's disease (Kondo, I. (806) 271)

Paraplegia
Demyelination; Myelination index; Schwann cell; Neural plasticity; Spinal cord contusion (Salgado-Ceballos, H. (782) 126)

Parasubiculum
Presubiculum; Entorhinal cortex; IPSP (Funahashi, M. (787) 19)

Parasympathetic
Neuroanatomy; Spinal cord; Autonomic; Pontine micturition center (Nuding, S.C. (785) 185)

Cardiovascular; Nucleus tractus solitarius (Neff, R.A. (792) 277)

Genitourinary; Spinal cord; c-*fos*; Immediate early gene; Bladder (Grill, W.M. (796) 150)

Parasympathetic nervous system
Cardioinhibitory neuron; Bradycardia; Cardiac ganglion; Congestive heart failure; Heart; Myocardial contractility; Vagus nerve (Blinder, K.J. (804) 325)

Cardioinhibitory neuron; Cardiac ganglia; Heart; Vagus nerve; Ventricular contractility (Blinder, K.J.L. (810) 251)

Parasympathetic neurons
K^+ currents; Development; Shal (Dryer, L. (789) 162)

Parathyroid hormone-related protein
Monoclonal antibody; Blood pressure; Sympathetic nervous system; Central nervous system (Nagao, S. (785) 75)

Paraventricular hypothalamic nucleus
Circadian rhythms; Feeding-entrained anticipatory activity; c-Fos; Neonatal rabbits; Supraoptic nucleus (Allingham, K. (783) 210)

Autonomic nervous system; Fever; Herpes virus; Hypothalamus; Medulla oblongata; Oxytocin; Periaqueductal gray matter; Preoptic region; Pseudorabies virus; Raphe magnus; Sympathetic nervous system; Temperature regulation; Viral transneuronal tracing (Smith, J.E. (786) 153)

Autonomic nervous system; Cardiac function; Defense reaction; Emotion; Fight-or-flight response; Lateral hypothalamic area; Periaqueductal gray matter; Precommissural nucleus; Pseudorabies virus; Raphe magnus nucleus (Farkas, E. (792) 179)

Paraventricular nucleus
2-deoxy-D-glucose; Food intake; Neuropeptide Y antibody (He, B. (781) 348)

Central nucleus of the amygdala; DAMGO; Naltrexone; Food intake (Giraudo, S.Q. (782) 18)

Amygdala; Central amygdala nucleus; Corticotropin-releasing hormone; In situ hybridization; mRNA; Neuropeptide; Stress (Hsu, D.T. (788) 305)

Interleukin-1β; Nitric oxide; Abdominal vagal afferent nerve; Microdialysis (Ishizuka, Y. (789) 157)

Fos; Hypovolemia; In situ hybridization; NADPH diaphorase; Nitric oxide synthase; Polyethylene glycol; Supraoptic nucleus (Ueta, Y. (790) 25)

5-Hydroxytryptamine; Cortex; Bed nucleus; Caudate–putamen; Amygdala; Brainstem (Javed, A. (791) 67)

Brain; Microdialysis; Dopamine; Acetylcholine; Nucleus accumbens; Feeding behavior; Galanin; Neuropeptide Y; Hypothalamus; Microinjection (Rada, P. (798) 1)

Rostral ventrolateral medulla; Spinal cord; Collateral (Shafton, A.D. (801) 239)

Hypothalamus; Arcuate nucleus; Adiposity; Eating behavior; Insulin (Wang, J. (802) 75)

Median eminence; Arcuate nucleus; *Phaseolus vulgaris* leucoagglutinin; Rat (Tóth, Z.E. (802) 294)

Obesity; Fos; Diet-resistance; Ventromedial nucleus; Dorsomedial nucleus; Arcuate nucleus (Levin, B.E. (808) 317)

MT II; SHU9119; MC4-receptor; Food intake (Giraudo, S.Q. (809) 302)

Glucose-responsive; Sulfonylurea; Neuropeptide Y; Dopamine; Norepinephrine; GABA; Ventromedial nucleus; Arcuate nucleus (Dunn-Meynell, A.A. (814) 41)

Paraventricular nucleus of the thalamus
Nucleus accumbens; Prefrontal cortex; Rat; Striatum; Thalamus (Bubser, M. (787) 304)

Paraventricular nucleus of the hypothalamus
Devazepide; Central nucleus of the amygdala; Nucleus of the solitary tract; Arcuate nucleus; Fasting (Wang, L. (791) 157)

Parietal cortex
Fear conditioning; Fos production; Stress; Hippocampus; Amygdala (Milanovic, S. (784) 37)

Parkinsonism
Schizophrenia; Haloperidol pyridinium; Reduced haloperidol pyridinium; Haloperidol tetrahydropyridine (Wright, A.M. (788) 215)

Parkinson's disease
6-Hydroxydopamine; Fixed-ratio discrimination training; Replacement therapy; Striatum; Accumbens; Dopamine; Apomorphine; Amphetamine (Van Keuren, K.R. (780) 56)

Coenzyme Q_{10}; Dopamine; Mitochondria (Beal, M.F. (783) 109)

Dopamine; L-DOPA; Repeated administration; Brain microdialysis (Brannan, T. (784) 148)

Neurotransplantation; Dopamine neuron; Apoptosis; Mesencephalon; Neurotrophic factor (Zawada, W.M. (786) 96)

MPTP-treated monkey; L-DOPA; Unit recordings of the globus pallidus (GPe, GPi) (Boraud, Th. (787) 157)

Endogenous amine; Deprenyl; Gas chromatography-selected ion monitoring method; Monoamine oxidase; Tetrahydroisoquinoline (Kotake, Y. (787) 341)

Neurotrophic factor; Substantia nigra; Immunocytochemistry; GDNF (Lapchak, P.A. (789) 9)

Pergolide; Dopamine agonist; Free radicals; Lipid peroxidation; Scavenging effect; Antioxidant; Electron spin resonance (Gómez-Vargas, M. (790) 202)

5-HT_{1B} receptor; Huntington's disease; Progressive supranuclear palsy; Striatonigral degeneration; [^{3}H]sumatriptan (Castro, M.E. (790) 323)

Neural transplants; Substantia nigra; Striatonigral pathway; Striatum; Innervation (Sortwell, C.E. (791) 117)

Grafting; 6-Hydroxydopamine-lesioned rat; Nitric oxide; Nitric oxide synthase; N^{ω}-nitro-L-arginine methylester (L-NAME) (Van Muiswinkel, F.L. (792) 48)

Substantia nigra; Immunocytochemistry; Growth factor; Tyrosine kinase; Dopaminergic (Walker, D.G. (792) 207)

MPTP; D2 receptor; Dopamine; Neural transplantation; Monkey (Elsworth, J.D. (795) 55)

Manganese; Aconitase; Mitochondria; Iron; Respiratory chain (Zheng, W. (799) 334)

Reaction time; Simple reaction time; Choice reaction time; Cerebral evoked potentials; Bradykinesia; Akinesia (Kutukcu, Y. (799) 1)

Aggregation; Fibrillation; Lewy body; NACP/α-synuclein (Hashimoto, M. (799) 301)

1,2,3,4-Tetrahydro-β-carboline; Cigarette smoke; Dopaminergic neuroprotection; MAO inhibition (Soto-Otero, R. (802) 155)

Oxidative stress; Intracerebral transplantation; PBN; Lazaroid; Culture (Karlsson, J. (805) 155)

MPTP; Monkey; PET; Dopamine (Eberling, J.L. (805) 259)

Paraoxonase 1 (PON1); Genetic association (Kondo, I. (806) 271)

Neurodegeneration; 6-Deoxy-6-β-[^{18}F]fluoronaltrexone; Positron emission tomography; Basal ganglia; Dopamine (Cohen, R.M. (806) 292)

Arachidonic acid; Autoradiography; Basal ganglia; Brain metabolism; Fatty acid; Functional brain imaging; 6-Hydroxydopamine; Phospholipase A_2 (Hayakawa, T. (807) 177)

Lewy body; NACP; Synuclein; Filament aggregation; Neuronal degeneration (Arima, K. (808) 93)

Mitochondrial permeability transition; Cyclosporin A; Apoptosis; Mitochondrial membrane permeability (Seaton, T.A. (809) 12)

Dopamine; Neurotoxicity; Neuroprotection; In vivo microdialysis (Opacka-Juffry, J. (810) 27)

Dopamine; Globus pallidus; Subthalamic nucleus (Olds, M.E. (812) 50)

Neurotoxin; Uptake; Mesolimbic system; Monoamine oxidase-B; Electrochemistry (Nakazato, T. (812) 150)

6-OHDA; Hypoxia; Substantia nigra; Hydroxyl radical; Oxidative stress; Cytochrome P450 (Dajas-Bailador, F.A. (813) 18)

6-hydroxydopamine lesion; Basal ganglia; NMDA antagonist; Genistein; Motor response alteration (Oh, J.D. (813) 150)

Brain-derived neurotrophic factor; Dopamine; Mesencephalic tissue culture (Höglinger, G.U. (813) 313)

Paroxetine
Synapse; Cocaine; MDMA; Methamphetamine; Depression; High-affinity uptake; Voltammetry; Electron microscopy; Immunocytochemistry; Autoradiography; Citalopram (Zhou, F.C. (805) 241)

Partial denervation
Nifedipine; Motor unit; Rat skeletal muscle; Motor unit territory; L-type Ca^{2+} channels (White, C.M. (779) 125)

Partial nerve ligation
Nerve injury-induced hyperalgesia; SNX-111; SNX-230; Nifedipine; Quin 2; Voltage-dependent calcium channel; Nociceptive flexion reflex (White, D.M. (801) 50)

Partial sciatic nerve injury
Neuropathic pain; N-type voltage-sensitive calcium channel; P-type voltage-sensitive calcium channel; Chronic constriction injury; Thermal hyperalgesia (Yamamoto, T. (794) 329)

Partial volume correction
Emission tomography; Serotonin receptor; Aging (Meltzer, C.C. (813) 167)

Partner preference
Medial preoptic area/anterior hypothalamus; Estradiol benzoate; Testosterone propionate (Paredes, R.G. (813) 1)

Parturition
Suckling stimulation; Lactation; Maternal behavior; Fos (Lin, S.-H. (787) 226)

Parvalbumin
Glutamate; Immunohistochemistry; Birds; Tectum; Nucleus rotundus; Nucleus triangularis; Ectostriatum; Heterogeneity; Dorso–ventral gradient (Theiss, C. (785) 114)

Amacrine cell; Ganglion cell; Cone photoreceptor; Outer segment; Horizontal cell; NMDA-R2A; NMDA-R2B; Calbindin; Immunocytochemistry; Colocalization with GABA (Goebel, D.J. (808) 141)

Actin; Cytokeratin; Cochlear hair cells; Mammalian; Neodifferentiation; Electron microscopy; Confocal microscopy (Parietti, C. (813) 57)

Parvicellular reticular formation
Superior colliculus; Cervical spinal cord; Axon collateral; Rat (Yasui, Y. (804) 149)

Passive avoidance
Long term potentiation; Immediate early gene; Slice; Imprinting; Learning (Yanagihara, S. (779) 240)

Active avoidance; Brainstem; Magnocellular reticular formation; Senescence-accelerated mouse SAM; Spongy degeneration (Yagi, H. (791) 90)

Neurosteroid; Nitric oxide; Aging; Pregnenolone; Dehydroepiandrosterone; NMDA receptor; Dizocilpine; Learning; Memory; Plus-maze (Reddy, D.S. (799) 215)

Passive avoidance acquisition
Entorhinal cortex; Fimbria–fornix; Tetrodotoxin; Functional inactivation (Baldi, E. (799) 270)

Passive-avoidance performance
Neurosteroid; Pregnenolone sulfate; Dehydroepiandrosterone sulfate; Learning and memory; σ Receptor; Haloperidol; Mouse (Reddy, D.S. (791) 108)

Passive movement
Human; Soleus; H-reflex; Ankle joint; Homonymous afferent feedback (Voigt, M. (783) 332)

Patch clamp
Neuromodulation; Neurosteroid; Progesterone; Kainate receptor; Cultured spinal neuron (Wu, F.-S. (779) 354)

Voltage-clamp; Cl^- pharmacology (Müller, M. (781) 307)

Alcohol; *N*-methyl-D-aspartate; Whole cell; Physical dependence; Tolerance (Grover, C.A. (782) 43)

Cannabinoid; Calcium channel; Hippocampus (Shen, M. (783) 77)

Cyclosporine; Calcium channels; Potassium channels; Vagal afferents (Hay, M. (786) 243)

Chemoreceptor; Glial fibrillary acidic protein; Oxygen; Potassium channel; Tyrosine hydroxylase (Chou, C.-L. (789) 229)

Neuromodulation; NMDA receptor; Glycine site; Biphasic effect; Channel kinetics; Cross-reactivity (Liu, G.J. (791) 290)

Glycine current; Freshly isolated neuron; Ion channel; Strychnine; Picrotoxin (Ye, J.H. (796) 53)

Potassium channel; Halothane; Anesthetic effect (Winegar, B.D. (807) 255)

Hippocampus; CA1 neuron; Bepridil; Potassium current (Hu, H. (809) 149)

Phosphorylation; Ion channel; ATP (Ren, J. (811) 71)

Patch-clamp, dorsal root ganglion
$GABA_A$ receptor; Ethanol; Phosphorylation; Rat, RT-PCR; Potentiation (Zhai, J. (805) 116)

Patch-clamp electrophysiology
Medial septum/diagonal band; γ-aminobutyric $acid_A$ receptor; Postnatal ethanol treatment; Fetal alcohol syndrome; Neuronal development (Hsiao, S.-H. (810) 100)

Patch clamp recording
Purkinje cell; Voltage-gated Ca^{2+} channel; Ca^{2+} imaging; ω-Agatoxin-IVA; Ni^{2+} (Watanabe, S. (791) 43)

Patch clamp tight-seal whole cell recording
Hippocampal slice; NMDA receptor; Hypoxia/ischemia; Extracellular pH change (Saybasili, H. (786) 128)

Pathology
Hyperglycemia; Focal ischemia; Capillary patency; Leukocyte; Cerebral blood flow (Li, P.-A. (804) 36)

Pavlovian conditioning
Neostriatum; Behavioral sensitization; Apomorphine; Microinjection; Habituation; Locomotion (Pinheiro Carrera, M. (790) 60)

Analgesia; Periaqueductal gray; Nociception; Stress; Tail flick; Opioid; Learning (Bellgowan, P.S.F. (791) 83)

7-Nitroindazole; Learning; Memory; Rat (Maren, S. (804) 155)

Paw
Strychnine; Ketamine; Bicuculline; Convergent neuron; Dorsal horn; Noxious immersion; Rat (McGaraughty, S. (784) 63)

Paw pressure
Inflammation; Carrageenin; Central sensitization; Rat; Lidocaine (Kayser, V. (794) 19)

$p75^{NTR}$, Basal forebrain, In vivo labelling
Choline acetyltransferase; Carbocyanine; Rat (Härtig, W. (808) 155)

PBN
Oxidative stress; Intracerebral transplantation; Lazaroid; Culture; Parkinson's disease (Karlsson, J. (805) 155)

PC12
Neuronal differentiation; Bcl-2; Neurofilament; Neurotoxic compound (Suzuki, A. (801) 59)

PC12 cell
Nerve growth factor; Calcium; K^+ depolarization; Apoptosis (Dispersyn, G. (779) 350)

Oleic acid; Glycerol; Diacylglycerol; Phospholipid; Nerve growth factor (Li, J. (803) 44)

Noradrenaline uptake; Noradrenaline transporter; Calcium ion; Calmodulin-dependent protein kinase II; Myosin light chain kinase (Uchida, J. (809) 155)

Nerve growth factor; MAP kinase; Neurite; MEK; Ras (Sano, M. (785) 299)

1321N1 human astrocytoma cells; Neurotrophic factor; Neurite outgrowth; Mitogen-activated protein kinase (Obara, Y. (806) 79)

PD-123319
Nucleus tractus solitarii; Baroreceptor reflex; Angiotensin II; Angiotensin III; Angiotensin AT_1 receptor; Angiotensin AT_2 receptor; Losartan; Amastatin; Rat (Luoh, H.F. (782) 73)

Furosemide; Sodium depletion; Angiotensin II; AT-1 and AT-2 receptor subtype; Losartan; Aldosterone (Liénard, F. (787) 171)

PD98059
Insulin; Neuron cell culture; MAPK; Neurofilament; Isoproterenol (Schechter, R. (808) 270)

PDH activity
Ca^{2+} channel blocker; Nicardipine; Energy metabolites; Cerebral ischemia (Katayama, Y. (781) 212)

Ischemic duration; Energy metabolite; Blood flow (Fukuchi, T. (792) 59)

Pedunculopontine tegmental nucleus
Diazepam; Delayed non-matching to position; Elevated plus maze; Anxiety; Rat (Leri, F. (807) 187)

Rat; Carbachol; Acetylcholine; Nucleus pontis oralis; REM sleep; Electroencephalogram; Cortex; Hippocampus (Kinney, G.G. (809) 307)

Pedunculopontine tegmentum
Brain stimulation reward; Medial forebrain bundle; Self-stimulation; Rate–frequency curve shift; Lateral dorsal tegmentum (Waraczynski, M. (800) 154)

Pelvic innervation
Aging; Preganglionic neuron; Cholera toxin; Confocal microscopy; Pregnancy (Dering, M.A. (780) 245)

Penile erection
Hippocampal EEG; Spectral analysis; Intracavernous pressure; Papaverine; Negative feedback inhibition; Rat (Chang, A.Y.W. (788) 160)

Pentobarbital
Seizure; Hippocampus; Tolerance; Kainate (Najm, I.M. (810) 72)

Pentylenetetrazole
Anticonvulsant; Dihydropyridine; Nimodipine; Calcium channel antagonist; Electroshock (Zapater, P. (796) 311)

Pentylenetetrazole kindling
c-fos; In situ hybridization; Opioid receptor effect; Endogenous opioid peptide (Erdtmann-Vourliotis, M. (792) 299)

Angiotensin II; Sarmesin; Adenosine agonists and antagonist (Georgiev, V.P. (779) 259)

Seizure; Glutamate receptor mRNA; Hippocampus; Rat (Lasoń, W. (785) 355)

Glutamate; Hippocampus; Naloxone; Naltrindole; Opioid (Schroeder, H. (811) 40)

Pentylenetetrazol (PTZ)
Rat brain; Cholecystokinin (CCK); mRNA; Frontal cortex; Hippocampus; Epilepsy; Clonic (Takeda, K. (779) 320)

Penumbra
[^{3}H]DAMGO; [^{3}H]DADLE; [^{3}H]U69,593; Opioidergic system; Infarct extension (Boutin, H. (787) 237)

Penumbra zone
Focal ischemia; Middle cerebral artery; Ischemic depolarization; Spreading depression; Cerebrolysin; MK-801; Rat (Koroleva, V.I. (786) 104)

Peptide
Barrel cortex; Neuromodulator; Microiontophoresis; Single cell recording; Rat (Cahusac, P.M.B. (793) 73)

N-acetylaspartylglutamate; Oligodendrocyte; Microglia; Alzheimer's disease; Huntington's disease; Excitatory amino acid (Passani, L. (794) 143)

Peptide exposure
Gastrin-releasing peptide; Tolerance; BIM-26226; Rat; Brain (Plamondon, H. (782) 202)

Peptidergic innervation
Galanin; Anterior pituitary; Monkey (Liu, S. (781) 114)

Perception
Event-related potential; Mismatch negativity; Auditory; Frequency; Cortex; Lesion; Sensory memory; Hemispace (Alain, C. (812) 23)

Perforant path
Kindling; Seizure classification; Spontaneous seizure; Epilepsy; Dentate gyrus; Amygdala (Michael, M. (793) 197)

Perforated patch
Hepatic encephalopathy; Hyperammonemia; Electrochemical trapping; Barium-sensitive potassium channel (Allert, N. (782) 261)

Perfusion
Carotid body; Intracellular calcium; Dopamine; Hypoxia; K^+–O_2 current (Roy, A. (785) 228)

Diffusion; Magnetic resonance imaging (MRI); Anti-ICAM-1; Focal cerebral ischemia; Rat (Jiang, Q. (788) 191)

Pergolide
Dopamine agonist; Parkinson's disease; Free radicals; Lipid peroxidation; Scavenging effect; Antioxidant; Electron spin resonance (Gómez-Vargas, M. (790) 202)

Periaqueductal gray
Antinociception; Pain; Opioid; Amygdala; Rostral medulla; Tail flick; Heart rate; Rat; Anesthesia (Helmstetter, F.J. (779) 104)

Morphine; β-Endorphin; Pain; Analgesia; Synergy; Nociception; Amygdala (Pavlovic, Z.W. (779) 158)

Analgesia; Nociception; Stress; Tail flick; Opioid; Learning; Pavlovian conditioning (Bellgowan, P.S.F. (791) 83)

Learned helplessness; Inescapable shock; Stressor controllability; 5-HT; 5-HIAA; In vivo microdialysis; Hippocampus (Amat, J. (797) 12)

Pain; Analgesia; Morphine; Morphine-6β-glucuronide; Locus coeruleus; Rostral ventromedial medulla (Krzanowska, E.K. (799) 329)

Nitric oxide; Blood pressure; GABA; Enkephalin; Glutamic acid; Hydroxylamine; TRIM; Sodium nitroprusside (Hall, C.W. (805) 69)

Antinociception; Ventrolateral orbital cortex; Jaw-opening reflex; (Rat) (Zhang, S. (813) 359)

Periaqueductal gray matter
Autonomic nervous system; Cardiovascular regulation; Emotion; Defense reaction; Pain; Precommissural nucleus; Pseudorabies virus; Stellate ganglion (Jansen, A.S.P. (784) 329)

Autonomic nervous system; Fever; Herpes virus; Hypothalamus; Medulla oblongata; Oxytocin; Paraventricular hypothalamic nucleus; Preoptic region; Pseudorabies virus; Raphe magnus; Sympathetic nervous system; Temperature regulation; Viral transneuronal tracing (Smith, J.E. (786) 153)

Autonomic nervous system; Cardiac function; Defense reaction; Emotion; Fight-or-flight response; Lateral hypothalamic area; Paraventricular hypothalamic nucleus; Precommissural nucleus; Pseudorabies virus; Raphe magnus nucleus (Farkas, E. (792) 179)

Periaqueductal grey
Glutamate; Excitatory amino acid; Electron microscopy; Immunocytochemistry (Azkue, J.J. (790) 74)

Pituitary adenylate cyclase activating polypeptide; Vasoactive intestinal polypeptide; Cholera toxin B subunit; Double immunofluorescent labeling; Dorsal vagal complex; Dorsal and linear raphe nuclei (Kozicz, T. (810) 211)

Periaqueductal grey area
Sensitization; Social stress; Cocaine; Fos immunohistochemistry; Ventral tegmental area; Dorsal raphe nucleus; Locus coeruleus; Locomotion (Nikulina, E.M. (810) 200)

Pericardium
Phrenic afferent fiber; Cervical spinal cord; Diaphragm; Cardiac nociception (Chandler, M.J. (798) 93)

Perifornical hypothalamus
Feeding; Food deprivation; Meal patterns; Neuropeptide Y (Marín Bivens, C.L. (782) 271)

Perilymph
Glutamate; Continuous monitoring; Ca^{2+}-dependency; Microdialysis (Matsuda, K. (794) 343)

Perinatal
Nitric oxide; Brain; Mitochondria; Hypoxia (Bolaños, J.P. (787) 117)

Perinatal asphyxia
Cyclic GMP; Nitric oxide synthase; Hypothermia; Striatum; Rat pup (Loidl, C.F. (791) 303)

Perinatal exposure
Cannabinoid; Δ^9-Tetrahydrocannabinol; Intravenous morphine self-administration; Opiate; Opioid neuron; Opioid receptor; Reinforcement; Drug addiction (Vela, G. (807) 101)

Perineuronal net
Chondroitin sulfate; Proteoglycan; Neurocan; Rat brain; Glia (Matsui, F. (790) 45)

Periodontal ligament
Carbonic anhydrase isozyme II; Ruffini ending; Mechanoreceptor; Rat (Ochi, K. (779) 276)

Regeneration; Growth-associated protein 43; Ruffini ending; Inferior alveolar nerve; Terminal Schwann cell; Nerve injury (Youn, S.H. (787) 41)

Calretinin; Regeneration; Ruffini ending; Mechanoreceptor; Inferior alveolar nerve; Rat (Hiroshima, K. (807) 218)

Periodontal mechanoreceptor
Adrenal nerve activity; Sympathetic nerve; Muscle spindle; Rat (Ikeda, K. (802) 289)

Peripheral nerve
Regeneration; Acellular; Schwann cell; Blood vessel; Macrophage (Fugleholm, K. (792) 309)

Rat sciatic nerve; Nerve regeneration; Nerve grafting; Nerve repair; Transplantation (Sondell, M. (795) 44)

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Adenosine; Conduction velocity; Rheobase and chronaxie; Young and old (Tekkök, S. (813) 268)

Peripheral nerve ending
B4-HRP; Spinal ganglia; Somatic nerve; Visceral nerve; Unmyelinated primary afferent (Wang, H.F. (811) 34)

Peripheral nerve injury
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Peripheral nervous system
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Peripheral neuropathies
GDNF; GDNFR-α; Axonopathy; Cell infiltration (Yamamoto, M. (809) 175)

Peripheral tissue
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Peripheral-type benzodiazepine receptor
Methamphetamine; Adenosine transporter; HSP72 (Escubedo, E. (814) 120)

Peripherin
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Periphery
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Neuropeptide Y (NPY); proDynorphin (proDYN); proEnkephalin (proENK); pro-opiomelanocortin (POMC); 2-deoxy-D-glucose (2-DG) (Giraudo, S.Q. (792) 136)

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Perirhinal cortex
Experimental epilepsy; Kainic acid; Sensorimotor cortex; Secondary generalization (Imamura, S.-i. (800) 323)

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Perivascular space
Kallikrein; Rat pineal gland; Immunohistochemistry; Immunoelectron microscopy; Vasoactive intestinal polypeptide; ELISA; Circadian rhythm (Kudo, M. (797) 287)

Periventricular nucleus
Neuroendocrine regulation; Hypothalamus; Prolactin receptor; Dopaminergic neuron; Estradiol; Progesterone; Arcuate nucleus (Lerant, A. (802) 141)

Periventricular preoptic nucleus
Electron microscopy; Estrogen receptor; Immunocytochemistry; Medial preoptic nucleus; Substance P (Kalló, I. (781) 335)

Perlecan
Excitotoxicity; Heparan sulphate proteoglycan; Reactive astrocyte; Glial scar; Amyloid plaque (Shee, W.L. (799) 292)

Permeability
Blood–brain barrier; Brain; Drug delivery; Microdialysis (Groothuis, D.R. (803) 218)

Peromyscus
Osmoregulation; Fos; Daily cycle; Water deprivation; Water balance; Thirst (Chae, H.E. (791) 1)

Peroxidation
Free radical; Hypoxia; Fetal brain; In utero; Na^+,K^+-ATPase (Maulik, D. (798) 166)

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Pertussis toxin
Opioid-receptor; Cannabinoid-receptor; Adenylyl cyclase; GTP-binding protein; Desensitization (Shapira, M. (806) 26)

cGMP; Alpha-2 adrenergic agonist; Dexmedetomidine; Opioid; Fentanyl; G protein; Mouse; Cerebellum (Vulliemoz, Y. (813) 26)

PET
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Petrosal ganglion
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μ-Opioid receptor; Substance P; Calcitonin gene-related peptide; Nitric oxide synthase; Nodose ganglion; Jugular ganglion; Coexistence; Rat (Ding, Y.-Q. (792) 149)

Calcitonin gene-related peptide; Jugular ganglion; NADPH-diaphorase; Nodose ganglion; Somatostatin; Substance P; Tyrosine hydroxylase (Ichikawa, H. (800) 312)

P-glycoprotein
Blood–brain barrier; Colchicine; Microdialysis; Mouse; Pharmacokinetics (Evrard, P.A. (786) 122)

pH
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pH_i
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pH Regulation
Aging; Brain slice; Extracellular pH; Hippocampus; Intracellular pH; Intrinsic buffering power; Ion transport (Roberts Jr., E.L. (779) 271)

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pTRUF3-aR1; Adeno-associated virus (Shafron, D.R. (784) 325)

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Amygdala; Electrical stimulation; Rapid-eye-movement sleep; Sleep (Deboer, T. (793) 305)

Pharmacokinetics
Blood–brain barrier; Colchicine; Microdialysis; Mouse; P-glycoprotein (Evrard, P.A. (786) 122)

Pharmacology
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Pharyngolarynx
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Pharynx
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Phaseolus vulgaris leucoagglutinin
Paraventricular nucleus; Median eminence; Arcuate nucleus; Rat (Tóth, Z.E. (802) 294)

Phase resetting
Circadian rhythm; Suprachiasmatic nucleus; Intergeniculate leaflet; Tachykinin; NK_1 receptor (Challet, E. (800) 32)

Phase shift
Circadian rhythm; Rod; Cone; *rd* mouse (Yoshimura, T. (779) 188)

Suprachiasmatic nucleus; Histamine; Circadian; Entrainment; Dimaprit; Light; Syrian hamster (Scott, G. (783) 1)

Circadian clock; Locomotor activity rhythm; Fos protein; Circadian times; Subjective night (Chambille, I. (808) 250)

Phasic response
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PHDA
Lactation; Dopamine; DOPAC; Prolactin; TIDA; THDA neuron; Pituitary gland (Nagy, G.M. (790) 315)

Phencyclidine
Prepulse inhibition; (+)-HA-966; Apomorphine; Haloperidol; Spontaneous locomotor activity (Furuya, Y. (781) 227)

Phenobarbital
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Phentermine
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Phentolamine
Isoproterenol; Phenylephrine; Metoprolol; Long-term potentiation; Hippocampus (Chaulk, P.C. (787) 59)

L-Phenylalanine
Ca^{2+} channel; *Xenopus* oocyte; mRNA; Phenylketonuria (Dzhura, I. (783) 280)

Phenylephrine
Isoproterenol; Phentolamine; Metoprolol; Long-term potentiation; Hippocampus (Chaulk, P.C. (787) 59)

β-Phenylethylamine
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Phenylketonuria
Ca^{2+} channel; *Xenopus* oocyte; mRNA; L-Phenylalanine (Dzhura, I. (783) 280)

Phenytoin
Self-sustaining status epilepticus; Antiepileptic drugs; Diazepam; Refractoriness (Mazarati, A.M. (814) 179)

Pheromone biosynthesis activating neuropeptide
Angiotensin I-converting enzyme; Insect; Neurotransmitter; Neuropeptide metabolism; Neuropeptide processing; FXPRLamide; Locustamyotropin; Pyrokinin (Schoofs, L. (785) 215)

Pheromones
Reflex ovulation; Olfaction; Sex differences; Copulation; Hypothalamus; GnRH (Gill, C.J. (811) 21)

Phorbol 12,13-dibutyrate
Hypothermia; Protein kinase C; Autoradiography; Cerebral ischemia; Middle cerebral artery occlusion; Rat (Tohyama, Y. (782) 348)

Autoradiography; Inositol 1,4,5-trisphosphate; Inositol 1,3,4,5-tetrakisphosphate; Protein kinase C; Human brain; Alzheimer's disease; Neurofibrillary tangles; Staging; Hippocampus (Kurumatani, T. (796) 209)

Phorbol-12,13-dibutyrate
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Phorbol ester
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Phosducin
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Phosphatidylinositol bisphosphate
Brain injury; Fluid percussion; Phospholipase Cγ; Diacylglycerol; Inositol trisphosphate (Carman, H.M. (808) 116)

Phosphatidylinositol-1,4-bisphosphate
Alzheimer's disease; Phospholipase Cγ (Zhang, D. (811) 161)

Phosphatidylserine
Alzheimer's disease; Caspase; Dendritic spine; Mitochondrial transmembrane potential; Oxidative stress; Synaptosome (Mattson, M.P. (807) 167)

Phosphodiesterase activator
Forskolin; Arginine vasopressin; Imidazole; Papaverine; Adenylate cyclase inhibitor; Phosphodiesterase inhibitor; Superior cervical ganglion (Hogan, Y.H. (787) 242)

Phosphodiesterase inhibitor
Forskolin; Arginine vasopressin; Imidazole; Papaverine; Adenylate cyclase inhibitor; Phosphodiesterase activator; Superior cervical ganglion (Hogan, Y.H. (787) 242)

Phosphofructokinase
Gene dosage; Glucose metabolism; Transgenic mouse; In vivo NMR (Peled-Kamar, M. (810) 138)

Phosphoinositide
Basal ganglia; Glutamate; Metabotropic; Excitatory amino acid (Tallaksen-Greene, S.J. (780) 210)

Phosphoinositide hydrolysis
Xanomeline; Alzheimer's disease; Milameline; Muscarinic receptor (Bymaster, F.P. (795) 179)

Phosphoinositide-3 kinase
PI3-kinase; Wortmannin; LY294002; Retrograde axonal transport; Nerve growth factor (Reynolds, A.J. (798) 67)

Phospholipase A_2
Excitotoxicity; Cyclooxygenase-2; Arachidonic acid; Reactive astrocyte; Glial scar; Hippocampus (Sandhya, T.L. (788) 223)

Alzheimer's; Amyloid beta peptide; Nicotine; Phospholipase D (Singh, I.N. (800) 275)

Arachidonic acid; Autoradiography; Basal ganglia; Brain metabolism; Fatty acid; Functional brain imaging; 6-Hydroxydopamine; Parkinson's disease (Hayakawa, T. (807) 177)

Phospholipase Cγ
Brain injury; Fluid percussion; Phosphatidylinositol bisphosphate; Diacylglycerol; Inositol trisphosphate (Carman, H.M. (808) 116)

Alzheimer's disease; Phosphatidylinositol-1,4-bisphosphate (Zhang, D. (811) 161)

Phospholipase D
Alzheimer's; Amyloid beta peptide; Nicotine; Phospholipase A2 (Singh, I.N. (800) 275)

Phospholipid
Oleic acid; Glycerol; Diacylglycerol; Nerve growth factor; PC12 cell (Li, J. (803) 44)

Phosphorylation
Traumatic brain injury; Cat; Cytoskeleton; Neurofilament; Calcium (Okonkwo, D.O. (784) 1)

Calpain; Glutamate; Receptor; Plasticity (Bi, R. (797) 154)

Dog; Aging; Tau; Amyloid; Neuron; Oligodendrocyte; Plaque (Wegiel, J. (802) 259)

$GABA_A$ receptor; Ethanol; Patch-clamp, dorsal root ganglion; Rat, RT-PCR; Potentiation (Zhai, J. (805) 116)

GABA; Calcium; Receptor binding; Muscimol (Churn, S.B. (809) 68)

Patch clamp; Ion channel; ATP (Ren, J. (811) 71)

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Phosphorylation of CREB
Transcription factor; Activator protein-1; Ischemia; Thalamus; Striatum (Kuramoto, N. (806) 152)

Photoperiod
Glucocorticoid receptors; Stress response; Hippocampus; Cortisol; Corticosterone; Hamster (Ronchi, E. (780) 348)

Lordosis response; Neural estrogen receptor; Neural progestin receptor; Syrian hamster; Medial preoptic area; Ventromedial hypothalamus (Mangels, R.A. (796) 63)

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Photoreceptors
Retinal pigmented epithelium; trkB; BDNF; Trophic factors; Differentiation (Hackett, S.F. (789) 201)

Photothrombosis
Receptor autoradiography; Paired-pulse inhibition; Cerebral ischemia; $GABA_A$ receptor; Postlesional reaction (Qü, M. (813) 374)

Phototransduction of invertebrates
Molluscan photoreceptors; cGMP-activated K^+ conductance; Light-activated guanylate cyclase; Inhibitor of cGMP generation, LY-83583 (Nishi, T. (809) 325)

Phrenic afferent fiber
Cervical spinal cord; Pericardium; Diaphragm; Cardiac nociception (Chandler, M.J. (798) 93)

Phrenic nerve
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Physical dependence
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Physical training
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Physostigmine
Neuronal nicotinic acetylcholine receptor; Subtype; Insect; Whole-cell voltage clamp; Single channel (Van den Beukel, I. (789) 263)

EEG spectra; Interhemispheric asymmetry; Scopolamine (Vorobyov, V.V. (794) 299)

Phytochemical
Dentate gyrus; Fast wave; Olfaction; Organic solvent; Pyriform (piriform) cortex; Rhinencephalon (Zibrowski, E.M. (800) 207)

Pial arteriole
FITC-dextran; Cerebral venule; Inducible nitric oxide; Aminoguanidine; Brain; Rat (Mayhan, W.G. (792) 353)

Pick's disease
Hypothalamus; Lateral tuberal nucleus; Tuberomamillary nucleus; Neuronal cytoskeleton; Tauopathy; Tau-protein (Braak, H. (802) 119)

Picrotoxin
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Medial amygdala; Dentate gyrus; Long-term potentiation; Population spike; Population excitatory postsynaptic potential (Noguchi, K. (794) 151)

Glycine current; Freshly isolated neuron; Ion channel; Patch clamp; Strychnine (Ye, J.H. (796) 53)

Adenosine receptor; CGS 21680; N^6-Cyclopentyladenosine; γ-Aminobutyric acid; Bicuculline; Cerebral cortex (Phillis, J.W. (807) 193)

Pig
NADPH diaphorase; Nitric oxide synthase; Choline acetyltransferase; Vasoactive intestinal polypeptide; Co-localization; Middle cerebral artery; Sphenopalatine ganglia (Yu, J.-G. (801) 78)

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Pigeon
Sound localization; Auditory-visual integration; Optic tectum; Superior colliculus (Lewald, J. (790) 339)

Circadian rhythm; Melatonin; Dopamine; Retina; Microdialysis (Adachi, A. (792) 361)

PI3-kinase
Phosphoinositide-3 kinase; Wortmannin; LY294002; Retrograde axonal transport; Nerve growth factor (Reynolds, A.J. (798) 67)

Pilocarpine
MK-801; Epileptogenesis; NMDA; Epilepsy; Interictal spike; Decreased cell number (Rice, A.C. (782) 240)

Pindolol
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Piriform cortex
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Pitch encoding
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Pituitary adenoma
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Pituitary adenylate cyclase activating polypeptide
Vasoactive intestinal polypeptide; Cholera toxin B subunit; Double immunofluorescent labeling; Dorsal vagal complex; Periaqueductal grey; Dorsal and linear raphe nuclei (Kozicz, T. (810) 211)

Pituitary adenylate cyclase-activating polypeptide receptor
PACAP; PAC_1; Suprachiasmatic nuclei; Supraoptic nuclei; Circadian rhythm; In situ hybridization histochemistry (Cagampang, F.R.A. (813) 218)

Pituitary gland
Lactation; Dopamine; DOPAC; Prolactin; TIDA; PHDA; THDA neuron (Nagy, G.M. (790) 315)

PKA
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PKC
PACAP; MAPK; Astrocyte; PKA (Moroo, I. (795) 191)

PKC-α
Protein kinase C (PKC); PKC-βII; Septum; Fimbria–fornix lesion; Plasticity (Shimohama, S. (781) 343)

PKC-βII
Protein kinase C (PKC); PKC-α; Septum; Fimbria–fornix lesion; Plasticity (Shimohama, S. (781) 343)

γPKC gene expression
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Place field
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Planorbis corneus
Dopamine; Exocytosis; Amperometry; Vesicle type; Amphetamine (Anderson, B.B. (788) 294)

Plantar test
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$GABA_A$ receptor; Bicuculline; Evans Blue; Formalin-induced inflammation; Spinal cord; Kaolin/carrageenan-induced inflammation (John, J.M. (794) 320)

Plasmalemmal channel
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Gene transfer; Continuous injection; Adult mammalian CNS (Imaoka, T. (780) 119)

Plasticity
Protein kinase C (PKC); PKC-α; PKC-βII; Septum; Fimbria–fornix lesion (Shimohama, S. (781) 343)

Evoked potentials; EEG; FFT; Barrel field; Rat (Musiał, P. (786) 1)

Denervation; Autonomic nervous system (Smith, P.G. (786) 171)

Calpain; Glutamate; Receptor; Calcium; Hippocampus (Bi, X. (790) 245)

Feeding; Hypothalamus; Immunohistochemistry; In situ hybridization (Cheng, X. (792) 89)

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NPY; 5-HT receptor; 5-7-DHT; *p*-Chlorophenylalanine; Cortex; Rat (Compan, V. (795) 264)

Calpain; Glutamate; Receptor; Phosphorylation (Bi, R. (797) 154)

Descending facilitation; Rostral ventral medulla; Secondary hyperalgesia (Calejesan, A.A. (798) 46)

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Sprouting; c-*fos*; Pain (Shortland, P. (810) 288)

Hippocampus; Long-term potentiation; Seizure; Cell Adhesion Molecules (Hoffman, K.B. (811) 152)

Hippocampus; Subiculum; Extracellular matrix; Gene expression; In situ hybridization (Hoffman, K.B. (812) 209)

Synaptic density; Dopamine; Serotonin; Receptor; Prefrontal cortex (Sugahara, M. (814) 143)

Plastic reorganization
Hemispheric lesion; Neuromagnetism; Somatosensory evoked field; Hand cortical representation; Magnetic resonance imaging (Rossini, P.M. (782) 153)

Platelet-derived growth factor
Ischemia; Infarct tolerance (Sakata, M. (784) 250)

PL Cγ-1
Thrombin receptor; Thrombin receptor activating peptide; Peripheral nervous system; Hirudin (Gill, J.S. (797) 321)

Plus maze
C-type natriuretic peptide; Atrial natriuretic peptide; Anxiety; Rat (Montkowski, A. (792) 358)

Neurosteroid; Nitric oxide; Aging; Pregnenolone; Dehydroepiandrosterone; NMDA receptor; Dizocilpine; Learning; Memory; Passive avoidance (Reddy, D.S. (799) 215)

PMS
Seizure; $GABA_A$ receptor; Allopregnanolone; Pregnancy; α4 Subunit (Moran, M.H. (807) 84)

Allopregnanolone; GABA receptor; α4 Subunit; Antisense; Rat (Moran, M.H. (807) 91)

pMCH
pMCHL; Human melanin-concentrating hormone; Antisense RNA expression (Miller, C.L. (803) 86)

pMCHL
pMCH; Human melanin-concentrating hormone; Antisense RNA expression (Miller, C.L. (803) 86)

P75 neurotrophin receptor
Nerve growth factor; Basal forebrain; Spatial memory; Choline; Sex difference (Williams, C.L. (794) 225)

Electron microscopy; Immunohistochemistry; Rat; Reticular thalamic nucleus (Oda, S. (801) 116)

PNMT
Catecholamine; Hypothalamus; Rat; mRNA; RT-PCR (Andreassi II, J.L. (779) 289)

PNS
Adhesion molecule; Glycoprotein; Neurotrophin (Walsh, G.S. (798) 184)

PNU-101017
Diazepam; Benzodiazepine receptor; Gerbil; Ischemia; Hippocampal CA_1 neuron (Hall, E.D. (798) 325)

Polyacrylamide gel electrophoresis (PAGE)
Amyotrophic lateral sclerosis (ALS); Glial fibrillary acidic protein (GFAP); GFAP immunohistochemistry; GFAP amino acid sequence; Motor neuron degeneration (*Mnd*) mutant mouse; Spinal cord (Fujita, K. (785) 31)

Poly(ADP-ribose) polymerase (PARP)
1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); Nicotinamide adenine dinucleotide (NAD^+); Adenosine triphosphate (ATP); Benzamide; C57BL/6N mouse (Cosi, C. (809) 58)

Polyamine
Ornithine decarboxylase; Traumatic brain injury; Western blotting (Raghavendra Rao, V.L. (783) 163)

Cerebral ischemia; Blood–brain barrier; NMDA receptor (Preston, E. (813) 191)

Polyamine site
Spermidine; NMDA receptor; Muscarinic receptor; Metabotropic glutamate receptor; Hippocampus; Working memory (Kishi, A. (793) 311)

Polyarthritis
Calcitonin gene-related peptide; Spinal release; Opioid receptor; Tonic inhibitory control; Intrathecal perfusion (Ballet, S. (796) 198)

Polyethylene glycol
Fos; Hypovolemia; In situ hybridization; NADPH diaphorase; Nitric oxide synthase; Paraventricular nucleus; Supraoptic nucleus (Ueta, Y. (790) 25)

Polymerase chain reaction
In situ PCR; Gene transfer; β-Galactosidase; Rat brain; *lac* Z gene; Herpes simplex virus; Digoxigenin (Yin, J. (783) 347)

Nicotinic acetylcholine receptor; Striatum; Aging; Ischemia (Tohgi, H. (791) 186)

Polynomial surface
Hippocampus; Single unit; Place field; Directional firing; Spatial memory; Hierarchical cluster analysis (Martin, P.D. (783) 249)

pro-opiomelanocortin (POMC)
Neuropeptide Y (NPY); proDynorphin (proDYN); proEnkephalin (proENK); 2-deoxy-D-glucose (2-DG); Periphery (Giraudo, S.Q. (792) 136)

Pons
Hypoxia; Noradrenaline; Respiration; Rat; Guanabenz; Post-hypoxic frequency decline; SK&F-86466 (Coles, S.K. (794) 267)

Taste; Neuroanatomy (Karimnamazi, H. (813) 283)

Pontine inhibitory area
REM sleep; Atonia; Glutamate; Nucleus magnocellularis of medulla; Nucleus paramedianus of medulla; In vivo microdialysis (Kodama, T. (780) 178)

Pontine micturition center
Barrington's nucleus; Distal colon; Locus coeruleus; Irritable bowel syndrome; Transsynaptic tracing; Pseudorabies virus; Retrograde tracing (Pavcovich, L.A. (784) 355)

Neuroanatomy; Spinal cord; Autonomic; Parasympathetic (Nuding, S.C. (785) 185)

Pontine nucleus
Ca^{2+}/calmodulin-dependent protein kinase II; Substantia nigra; Red nucleus; Cochlear nucleus; Inferior olivary nucleus (Ochiishi, T. (790) 129)

Pontine parabrachial nucleus
Nucleus of the solitary tract; Area postrema; Emetic drug; GLP-1; Satiety; Anorexia (Thiele, T.E. (801) 164)

Pontine respiratory group
Nucleus of the Tractus Solitarius; Bötzinger complex; Neural pathway; Respiration (Zheng, Y. (782) 113)

Population excitatory postsynaptic potential
Medial amygdala; Dentate gyrus; Long-term potentiation; Population spike; Picrotoxin (Noguchi, K. (794) 151)

Population spike
Guinea pig; Hippocampal slice; High energy phosphate; Glucose; Lactate; Mannose; Fructose (Wada, H. (788) 144)

Medial amygdala; Dentate gyrus; Long-term potentiation; Population excitatory postsynaptic potential; Picrotoxin (Noguchi, K. (794) 151)

Positron emission tomography
Frontal lobe; Maze learning; Episodic memory; Procedural memory; Visuospatial memory; Regional cerebral blood flow (Van Horn, J.D. (793) 29)

Cholinergic system; Glutamatergic system; Regional cerebral blood flow; Regional metabolism; Monkey brain (Tsukada, H. (796) 82)

Tetrahydrocannabinol; Cerebral blood flow; Cerebral metabolism; Temporal disintegration; Cerebellum; Anterior cingulate (Mathew, R.J. (797) 183)

Parkinson's disease; Neurodegeneration; 6-Deoxy-6-β-[^{18}F]fluoronaltrexone; Basal ganglia; Dopamine (Cohen, R.M. (806) 292)

Posterior hypothalamic warm and cold responsive neurons
Temperature regulation; Thermoresponsiveness; Shivering vs. non-shivering thermogenesis (Li, Q. (794) 80)

Posterior pituitary
Vasopressin; Supraoptic nucleus; Microdensitometry (Perryman, W.C. (792) 340)

Post-feeding
Microdialysis; Feeding behaviour; Dopamine; Nucleus accumbens (Kaneyuki, H. (794) 166)

Postganglionic
Afferent input; Blood vessel; T-rhythm (Smith, J.E. (811) 169)

Post-hypoxic frequency decline
Hypoxia; Noradrenaline; Respiration; Rat; Pons; Guanabenz; SK&F-86466 (Coles, S.K. (794) 267)

Postischemic hypothermia
Cerebral ischemia; Learning; CA1; Gerbil; Habituation; Working memory (Colbourne, F. (803) 69)

Postlesional reaction
Receptor autoradiography; Paired-pulse inhibition; Cerebral ischemia; Photothrombosis; $GABA_A$ receptor (Qü, M. (813) 374)

Postmortem brain
Schizophrenia; Basal ganglia; Adenosine 2a receptors; [] CGS21680 (Kurumaji, A. (808) 320)

Postmortem human brain
G protein; $GABA_B$ receptor; Receptor/G protein coupling; High-affinity GTPase (Odagaki, Y. (789) 84)

Postnatal development
[^{3}H]kainate binding; Autoradiography; Barrel cortex; Mouse (Jabłońska, B. (791) 325)

Postnatal ethanol treatment
Medial septum/diagonal band; γ-aminobutyric $acid_A$ receptor; Fetal alcohol syndrome; Neuronal development; Patch-clamp electrophysiology (Hsiao, S.-H. (810) 100)

Postnatal life
Cholesterol side-chain cleavage enzyme; 17α-Hydroxylase/c17, 20-lyase; 3β-Hydroxysteroid dehydrogenase/Δ^5-Δ^4-isomerase; Messenger RNA expression; Neurosteroids; Rat brain; Reverse transcription-polymerase chain reaction (Kohchi, C. (801) 233)

Postnatal neuronal cell culture
Potassium buffering; Glia; Nerve growth factor; Depolarization (Abiru, Y. (809) 115)

Postsubiculum
Head direction cell; Laterodorsal thalamus; Spatial; Navigation (Golob, E.J. (780) 9)

Post-tetanic potentiation
Tirilazad; Cat; Soleus; Motor nerve terminal; Edrophonium; Repetitive discharge (Hall, E.D. (779) 346)

Posture
H-reflex; Ankle dorsiflexion; Reciprocal inhibition; Man (Kasai, T. (792) 159)

Potassium
Locomotion; Rhythm generation; Cyclic inhibition; Walking; Motoneuron (Büschges, A. (783) 262)

c-Fos; Brain injury; Glial fibrillary acidic protein; Immunohistochemistry (Herrera, D.G. (784) 71)

Ischemia; Hypoxia; Field potentials (Schmidinger, A. (794) 28)

Astrocyte; Cell swelling; Methylmercury; Sodium; Aspartate; Amiloride; In vitro (Aschner, M. (799) 207)

Bupropion; Haloperidol; Microdialysis; Striatum; Dopamine; DOPAC; Time course; Axotomy; Rat (Holson, R.R. (808) 182)

Potassium buffering
Glia; Postnatal neuronal cell culture; Nerve growth factor; Depolarization (Abiru, Y. (809) 115)

Potassium channel
Cochlear outer hair cell; Chloride channel; Calcium calmodulin-dependent protein kinase II; Protein phosphatase; *N*-acetylsphingosine; Calyculin A (Minamino, M. (781) 275)

Cerebral artery; Vasodilatation; Nitric oxide; Guanylate cyclase; Cyclic GMP (Onoue, H. (785) 107)

Cyclosporine; Patch-clamp; Calcium channels; Vagal afferents (Hay, M. (786) 243)

Chemoreceptor; Glial fibrillary acidic protein; Oxygen; Patch clamp; Tyrosine hydroxylase (Chou, C.-L. (789) 229)

Halothane; Anesthetic effect; Patch clamp (Winegar, B.D. (807) 255)

Potassium channel blocker
ACh release; 5-HT_3 receptor; Ondansetron; $GABA_A$ receptor; Entorhinal cortex (Díez-Ariza, M. (801) 228)

Potassium current
Neuromuscular junction; 3,4-Diaminopyridine; Presynaptic current; Lambert–Eaton myasthenic syndrome treatment; Multiple sclerosis treatment; Motor nerve conduction (Miralles, F. (789) 239)

Lamotrigine; Epilepsy; Bipolar affective disorder; Hippocampus (Grunze, H. (791) 330)

Hippocampus; CA1 neuron; Patch-clamp; Bepridil (Hu, H. (809) 149)

Potassium ion homeostasis
Aging; Brain slice; Dizocilpine; Hippocampus; Hypoxia; Ion transport (Roberts Jr., E.L. (791) 321)

Potentiation
$GABA_A$ receptor; Ethanol; Phosphorylation; Patch-clamp, dorsal root ganglion; Rat, RT-PCR (Zhai, J. (805) 116)

P2 purinoceptor
Ventral tegmental area; Dopaminergic neuron (Poelchen, W. (800) 170)

Prazosin
Parafascicular neuron; Locus coeruleus; Nociceptive modulation; Yohimbine; Intrathecal injection; Intracerebroventricular injection (Zhang, C. (784) 116)

L-NAME; Losartan; Indomethacin; Prostaglandin; Blood pressure (Liu, H. (785) 317)

Idazoxan; Nociception; Opioids; Spinal cord; WB4101 (Fang, F. (790) 14)

Precommissural nucleus
Autonomic nervous system; Cardiovascular regulation; Emotion; Defense reaction; Pain; Periaqueductal gray matter; Pseudorabies virus; Stellate ganglion (Jansen, A.S.P. (784) 329)

Autonomic nervous system; Cardiac function; Defense reaction; Emotion; Fight-or-flight response; Lateral hypothalamic area; Paraventricular hypothalamic nucleus; Periaqueductal gray matter; Pseudorabies virus; Raphe magnus nucleus (Farkas, E. (792) 179)

Preconditioning
Spreading depression; Ischemia; BDNF; bFGF; Astrocyte (Matsushima, K. (807) 47)

Predatory attack
Cholecystokinin; CCK receptor; Hypothalamus; Midbrain periaqueductal gray; Defensive rage; Cat (Luo, B. (796) 27)

Prefrontal cortex
Dopamine; VTA; NMDA; Stress; Microdialysis (Enrico, P. (779) 205)

Substantia nigra pars reticulata; Motor cortex; Caudate nucleus; Putamen; Subthalamic nucleus; Thalamus; Monkey (Kitano, H. (784) 228)

Schizophrenia; Ketamine; NMDA; Limbic system; Hippocampus; Cingulate cortex (Duncan, G.E. (787) 181)

Nucleus accumbens; Paraventricular nucleus of the thalamus; Rat; Striatum; Thalamus (Bubser, M. (787) 304)

Dopamine; Nicotine; Stress; Rat brain; Schizophrenia (George, T.P. (801) 36)

Sexual dimorphism; Meadow vole; Dendritic arbor; *Microtus pennsylvanicus* (Kavaliers, M. (810) 41)

Dopamine; D1 antagonist; Nucleus accumbens; Self-stimulation; Brain-stimulation reward; Rat (Duvauchelle, C.L. (811) 57)

Synaptic density; Plasticity; Dopamine; Serotonin; Receptor (Sugahara, M. (814) 143)

Preganglionic neuron
Aging; Cholera toxin; Confocal microscopy; Pregnancy; Pelvic innervation (Dering, M.A. (780) 245)

5α-Pregnan-3α-ol-20-one
Chronic ethanol; Neurosteroid binding site; $GABA_A$ receptor (Mehta, A.K. (805) 88)

Pregnancy
Aging; Preganglionic neuron; Cholera toxin; Confocal microscopy; Pelvic innervation (Dering, M.A. (780) 245)

Oxytocin mRNA; Oxytocin hnRNA; Lactation (Douglas, A.J. (782) 167)

Estrogen; Progesterone; Gender; Analgesia (Dawson-Basoa, M. (794) 61)

Seizure; $GABA_A$ receptor; Allopregnanolone; α4 Subunit; PMS (Moran, M.H. (807) 84)

Pregnenolone
Neurosteroid; Nitric oxide; Aging; Dehydroepiandrosterone; NMDA receptor; Dizocilpine; Learning; Memory; Passive avoidance; Plus-maze (Reddy, D.S. (799) 215)

Pregnenolone sulfate
$GABA_A$ receptor; Sulfated steroids; 3α-hydroxy-5α-pregnan-20-one sulfate; Chloride ionophore; Neurosteroid (El-Etr, M. (790) 334)

Neurosteroid; Dehydroepiandrosterone sulfate; Learning and memory; σ Receptor; Passive-avoidance performance; Haloperidol; Mouse (Reddy, D.S. (791) 108)

Excitotoxicity; NMDA receptor; Steroids (Weaver Jr., C.E. (803) 129)

AMPA receptor; NMDA receptor; Kainate receptor; Neurosteroid; Steroid (Yaghoubi, N. (803) 153)

Prelimbic medial prefrontal cortex
Open field; Behavioral sensitization; Locomotion; Sniffing; Cocaine (Tzschentke, T.M. (795) 71)

Prenatal development
Methylazoxy methanol acetate; Entorhinal cortex; Frontal cortex; Rat; Schizophrenia (Talamini, L.M. (789) 293)

Preoptic area
Hypothalamus; Frontal cortex; Brain slices; Synaptosome; NMDA (Fiber, J.M. (790) 329)

Hypothalamus; Rhesus monkey; Sex difference; Cytoarchitecture; Human (Byne, W. (793) 346)

Median preoptic nucleus (MnPO); Immediate-early gene; Differential neuronal activation (Patronas, P. (798) 127)

Hypothalamus; Slice system; ATP; Tamoxifen; Fluphenazine (Gray, J.M. (798) 223)

Sleep; Arousal; Hypothalamus; Electroencephalogram; Sleep deprivation (Szymusiak, R. (803) 178)

Central regulation of salivation; Salivary gland; Viral tracing; Organum vasculosum of the lamina terminalis; Subfornical organ; Median preoptic nucleus; Insular cortex (Hübschle, T. (806) 219)

Aromatase; Estrogen synthetase; Medial basal hypothalamus; Amygdala; Cytochrome *P*450; CYP19 (Roselli, C.E. (811) 105)

Preoptic region
Autonomic nervous system; Fever; Herpes virus; Hypothalamus; Medulla oblongata; Oxytocin; Paraventricular hypothalamic nucleus; Periaqueductal gray matter; Pseudorabies virus; Raphe magnus; Sympathetic nervous system; Temperature regulation; Viral transneuronal tracing (Smith, J.E. (786) 153)

Prepositus hypoglossi
Nitric oxide; Nitric oxide synthase; Vestibular compensation; Vestibular nucleus (Anderson, T.V. (787) 311)

PreproCCK mRNA expression
Opiate tolerance; Oxytocin; Salt loading (Munro, G. (780) 190)

Preprodynorphin
In situ hybridisation histochemistry; Reinforcement; Preproenkephalin (Cowen, M.S. (796) 323)

Preproenkephalin
Corneal epithelium; Limbal epithelium; Conjunctival epithelium; Opioid; [Met^5]-enkephalin; Eye; Cell renewal mRNA; In situ hybridization (Zagon, I.S. (792) 72)

In situ hybridisation histochemistry; Reinforcement; Preprodynorphin (Cowen, M.S. (796) 323)

Preproenkephalin mRNA
Alcohol; Opioid; Selectively bred rat lines; Enkephalin; In situ hybridization; Nucleus accumbens (Li, X.-W. (794) 35)

Prepulse inhibition
(+)-HA-966; Phencyclidine; Apomorphine; Haloperidol; Spontaneous locomotor activity (Furuya, Y. (781) 227)

Presenilin-1
Alzheimer's disease; Amyloid angiopathy; Amyloid β protein (Hayashi, Y. (789) 307)

Pressor response
Clonidine; Central alpha$_2$-adrenoceptor; Ageing; Conscious rat (Kawasaki, H. (782) 333)

Acetylcholine; Parabrachial nucleus; Rostral ventrolateral medulla; Sympathoexcitatory neuron; Scopolamine (Kubo, T. (789) 23)

Bradycardia; Chemoreceptor projection site; Depressor response; Tachycardia (Dhruva, A. (801) 88)

Pressure neuropathy
Demyelination; Intraepidermal innervation; Medial plantar nerve; Renaut body; Tactile allodynia; Tactile hyperesthesia; Von Frey filament; Wallerian degeneration (Mizisin, A.P. (788) 13)

Pressure pain sensibility
Saline-induced muscle pain; Descending and segmental inhibitory control (Graven-Nielsen, T. (787) 203)

Pressure strain
C fiber; Neural control of skin blood flow; Laser Doppler; Human (Fromy, B. (811) 166)

Presubiculum
Parasubiculum; Entorhinal cortex; IPSP (Funahashi, M. (787) 19)

Presynaptic
Axonal conduction; Fiber volley; Glutamate; Pre-terminal; TTX (Mikulec, A.A. (796) 231)

Visual cortex; Metabotropic glutamate receptor; Rat (Jin, X. (797) 218)

Angiotensin receptors; Medial forebrain bundle; Bed nucleus of the stria terminalis (Grove, K.L. (809) 5)

Presynaptic current
Neuromuscular junction; 3,4-Diaminopyridine; Potassium current; Lambert–Eaton myasthenic syndrome treatment; Multiple sclerosis treatment; Motor nerve conduction (Miralles, F. (789) 239)

Presynaptic glutamate receptor
Group II metabotropic glutamate receptor; Glutamate release; Kindling; Epileptogenesis; Seizure; DCG-IV; Lamotrigine (Attwell, P.J.E. (805) 138)

Presynaptic inhibition
Stretch; Muscle spindle; Spinal cord; Human (Cheng, J. (779) 280)

Presynaptic protein
Ischemia; NACP; NAC; Synuclein; Hippocampus (Ishimaru, H. (788) 311)

Presynaptic receptor
Whole-cell voltage clamp; Spinal cord slice; Glutamatergic EPSC; α_{2A}-adrenoceptor; Sympathetic preganglionic neuron (Miyazaki, T. (790) 170)

Pretectum
Reflex; Pupil (Young, M.J. (787) 191)

Pre-terminal
Axonal conduction; Fiber volley; Glutamate; Presynaptic; TTX (Mikulec, A.A. (796) 231)

Primary afferent
Inflammation; Pain; Spinal dorsal horn; Image analysis (Polgár, E. (786) 248)

Primary afferent depolarization
Serotonin (5-HT); GABA; Capsaicin; Nociceptive afferent; Spinal dorsal horn (Khasabov, S.G. (789) 339)

Primary afferent fiber
ATP receptor; Glutamate receptor; Optical recording; Pain; Voltage-sensitive dye (Ikeda, H. (812) 81)

Primary auditory cortex
Monkey; Current source density; Multiunit activity; Pitch encoding; Tonotopic organization (Fishman, Y.I. (786) 18)

Primary culture
Astrocyte; Intercellular communication; Calcium wave; Adrenergic receptor; Imaging (Muyderman, H. (793) 127)

Primary motor cortex
Corticostriatal input; Supplementary motor area; Putamen; Motor control; Monkey (Takada, M. (791) 335)

Primary neuron
Capsaicin; Nerve injury; Apoptosis; Trigeminal ganglion; Nerve growth factor (Sugimoto, T. (807) 147)

Primary sensory neuron
Guinea pig; Tooth pulp; Jaw-opening reflex; NK1 antagonist; Immunocytochemistry; Substance P (Alia, S. (787) 99)

Fura-2; Cytosolic calcium; Ca^{2+} channel antagonist; Voltage-gated Ca^{2+} channel; Vagal afferent (Sato, M. (813) 203)

Primary sensory pathway
Hearing; Auditory function; Subcerebellar nuclei; Learning and memory: systems and functions (Woody, C.D. (789) 74)

Primate brain region
(−) Deprenyl; AChE activity; MAO-A; MAO-B; Dendritic morphology; CA3 pyramidal neuron (Lakshmana, M.K. (796) 38)

(−) Deprenyl; AChE activity; MAO-A; MAO-B; Dendritic morphology; CA3 pyramidal neuron (Lakshmana, M.K. (796) 38)

Principle vibrissa
L-NAME; Unit-recording; Whisker pairing; Unpaired control (Maalouf, M. (793) 149)

Procaine
Anoxic depolarization; Ca^{2+}; Cerebral ischemia; Gerbil; Hippocampus (Chen, J. (792) 16)

Procedural memory
Frontal lobe; Maze learning; Episodic memory; Visuospatial memory; Positron emission tomography; Regional cerebral blood flow (Van Horn, J.D. (793) 29)

Prodynorphin
Kainic acid; Cyclooxygenase; Lipoxygenase; Proenkephalin; Fra protein; Hippocampus (Kim, H.-C. (782) 337)

proDynorphin (proDYN)
Neuropeptide Y (NPY); proEnkephalin (proENK); pro-opiomelanocortin (POMC); 2-deoxy-D-glucose (2-DG); Periphery (Giraudo, S.Q. (792) 136)

Prodynorphin gene
Opioid; Human; Promoter; Transcription (Telkov, M. (804) 284)

Proenkephalin
Kainic acid; Cyclooxygenase; Lipoxygenase; Prodynorphin; Fra protein; Hippocampus (Kim, H.-C. (782) 337)

RU-486; Stress; Opioid; CRH; mRNA; Hypothalamus (García-García, L. (786) 215)

Proestrous
5-HT receptor agonist; Sexual behavior; Female (Wolf, A. (804) 206)

Progesterone
Neuromodulation; Neurosteroid; Kainate receptor; Cultured spinal neuron; Patch-clamp (Wu, F.-S. (779) 354)

Alzheimer's disease; Aging; Estrogen; NGF receptor (Gibbs, R.B. (787) 259)

Hypothalamus; Aromatase; 5α-Reductase; Rats; Testosterone (Lephart, E.D. (789) 327)

Pregnancy; Estrogen; Gender; Analgesia (Dawson-Basoa, M. (794) 61)

Estrogen; Flurothyl; Low magnesium; Convulsion; Forebrain; Brainstem; Entorhinal cortex (Velíšek, L. (796) 247)

Neuroendocrine regulation; Hypothalamus; Prolactin receptor; Dopaminergic neuron; Estradiol; Arcuate nucleus; Periventricular nucleus (Lerant, A. (802) 141)

GSH; Antioxidant; Ovariectomy; Oxidative stress; Estrous (Kume-Kick, J. (803) 105)

proEnkephalin (proENK)
Neuropeptide Y (NPY); proDynorphin (pro-DYN); pro-opiomelanocortin (POMC); 2-deoxy-D-glucose (2-DG); Periphery (Giraudo, S.Q. (792) 136)

Progestin receptor
Estrogen receptor; Puberty; Medial preoptic area; Lordosis (Olster, D.H. (790) 254)

Programmed cell death
DNA repair; Cell cycle; Neurotrophin; Neuronal cell death (Araki, T. (794) 239)

Transneuronal degeneration; Basal ganglia; Excitotoxicity; Substantia nigra reticulata (DeGiorgio, L.A. (795) 1)

Neural cell adhesion molecule; Cortical neuron; Apoptosis (Azizeh, B.Y. (796) 20)

Progressive supranuclear palsy
5-HT_{1B} receptor; Huntington's disease; Parkinson's disease; Striatonigral degeneration; [^{3}H]sumatriptan (Castro, M.E. (790) 323)

Prolactin
Lactation; Dopamine; DOPAC; TIDA; PHDA; THDA neuron; Pituitary gland (Nagy, G.M. (790) 315)

PACAP; DOPAC; Microdialysis; TIDA neuron; Sheep (Anderson, S.T. (790) 343)

Dopamine; DOPAC; Neurointermediate lobe denervation (DeMaria, J.E. (806) 89)

Orphanin FQ; Nociceptin; Growth hormone; Opiates (Bryant, W. (807) 228)

Dorsal raphe nucleus; Pseudopregnancy; Neural transection; Radioimmunoassay; Rat (Maekawa, F. (813) 195)

Prolactin receptor
Neuroendocrine regulation; Hypothalamus; Dopaminergic neuron; Estradiol; Progesterone; Arcuate nucleus; Periventricular nucleus (Lerant, A. (802) 141)

Proliferating cell nuclear antigen
Brain macrophage; ED1; Ionized calcium binding adapter molecule 1; MHC class II antigen; Motor neuron degeneration; Retrograde change (Graeber, M.B. (813) 241)

Proliferation
Compression; Rat astrocyte RCR-1 cell; Signaling pathway; Injury of central nervous system; Tyrosine kinase (Oishi, Y. (781) 159)

TGFβ; TGF-β; In vitro; Autoradiography; Microglia (Jones, L.L. (795) 301)

Macrophage recruitment; BSI-B4 isolectin histochemistry; Astrocyte; ^{3}H-thymidine autoradiography; Developing rat brain (Janeczko, K. (812) 172)

Promoter
Neuronal; NTera-2; Differentiation; cAMP (Fennell, M. (799) 243)

GDNF; Gene regulation; Transcription factor; Genomic structure (Woodbury, D. (803) 95)

Opioid; Prodynorphin gene; Human; Transcription (Telkov, M. (804) 284)

Proopiomelanocortin
Corticotropin-releasing hormone; Urocortin; Anterior pituitary; Receptor; ACTH (Asaba, K. (806) 95)

Propentofylline
Microglia; Dibutyryl cAMP; Cytokines; Nitric oxide; Superoxide (Si, Q. (812) 97)

Propidium iodide
Neurodegeneration; Neurotoxicity mapping; Microtubule-associated protein 2; Selective vulnerability; Organotin compounds (Noraberg, J. (783) 305)

Propofol
$GABA_A$; Receptor isoform; Subunit; *Xenopus* oocyte (Lam, D.W. (784) 179)

Ischemia; Reperfusion; Oxidative stress; Glutathione; Lipid peroxidation (De La Cruz, J.P. (800) 136)

Propranolol
Akathisia; Fos; Neuroleptics; β-adrenoceptor antagonist; Extra-pyramidal side effects (Ohashi, K. (802) 134)

Propriobulbar neuron
Rhythm generation; Ventrolateral medulla; Ventral respiratory group; Nucleus ambiguus; Medulla oblongata (Sun, Q.-J. (809) 204)

Proprioception
Kinesthesia; Muscle afferent; Voluntary movement; Direction coding; Velocity coding (Ribot-Ciscar, E. (791) 167)

Propriospinal
Descending inhibition; Nociception; *fos*; Immunohistochemistry (Jones, S.L. (788) 337)

Prostaglandin
Cerebral ischemia; Hyperthermia (Thornhill, J. (784) 48)

L-NAME; Losartan; Prazosin; Indomethacin; Blood pressure (Liu, H. (785) 317)

Endotoxin; Blood–brain barrier; Endothelial (Quan, N. (802) 189)

Prostaglandin E1
Phosducin; Green fluorescence protein; Confocal microscopy; Fusion protein; G proteins; Protein trafficking (Schulz, R. (790) 347)

Prostaglandin E_2
Mycoplasma fermentans; Astrocyte; MfGL-II; Choline-containing-glycolipid; Nitric oxide; Protein kinase C; Inflammation; Lactate production (Ben-Menachem, G. (803) 34)

Protease
Glutamate; Excitatory transmission; Neuropeptide (Luthi-Carter, R. (795) 341)

Protein kinase
Glutamate; Aspartate; Microdialysis; cGMP; cAMP; Pain; Dorsal horn; Hyperalgesia (Sluka, K.A. (798) 281)

Protein kinase A
Tau; Microtubule; Lithium; Osmotic stress; Okadaic acid (Xie, H.-q. (798) 173)

Protein kinase C
Casein kinase II; B-50 (GAP-43); Protein phosphatase (Dokas, L.A. (781) 320)

Cerebral ischemia; Glutamate; Aspartate; Taurine; GABA (Nakane, H. (782) 290)

Hypothermia; Phorbol 12,13-dibutyrate; Autoradiography; Cerebral ischemia; Middle cerebral artery occlusion; Rat (Tohyama, Y. (782) 348)

MK-801; Autoradiography; Brain slice; Phorbol ester; Mg^{2+} (Oh, S. (793) 337)

Autoradiography; Inositol 1,4,5-trisphosphate; Inositol 1,3,4,5-tetrakisphosphate; Phorbol 12,13-dibutyrate; Human brain; Alzheimer's disease; Neurofibrillary tangles; Staging; Hippocampus (Kurumatani, T. (796) 209)

Protein-kinase C
Conditioned taste aversion; Chelerythrine; Learning; Memory; Rat (Sacchetti, B. (799) 84)

Protein kinase C
Mycoplasma fermentans; Astrocyte; MfGL-II; Choline-containing-glycolipid; Nitric oxide; Prostaglandin E_2; Inflammation; Lactate production (Ben-Menachem, G. (803) 34)

Formalin-induced nociception; Phorbol-12,13-dibutyrate; Calphostin C; Diabetes; Mouse (Ohsawa, M. (803) 198)

Vestibular compensation; Cerebellum; Labyrinthectomy; Purkinje cell; Signal transduction protein (Balaban, C.D. (804) 253)

Ammonia; Cl^-/HCO_3^- exchanger; Intracellular Cl^- concentration (Irie, T. (806) 246)

Dopamine; Locomotion; Nucleus accumbens; Amphetamine; Dopamine release (Browman, K.E. (814) 112)

Protein kinase C (PKC)
PKC-α; PKC-βII; Septum; Fimbria–fornix lesion; Plasticity (Shimohama, S. (781) 343)

Protein phosphatase
Cochlear outer hair cell; Chloride channel; Potassium channel; Calcium calmodulin-dependent protein kinase II; *N*-acetylsphingosine; Calyculin A (Minamino, M. (781) 275)

Casein kinase II; Protein kinase C; B-50 (GAP-43) (Dokas, L.A. (781) 320)

Protein phosphorylation
Torpedo ACh receptor; Outside-out patch; Desensitization; Site-directed mutagenesis (Nishizaki, T. (812) 242)

Protein synthesis
Anoxia/aglycemia; NMDA; pH; Acidosis; Calcium (Raley-Susman, K.M. (782) 281)

Classical conditioning; Eyeblink; Interposed nucleus; Intermediate cerebellum; Rabbit (Bracha, V. (788) 169)

Teleost; Pineal; Melatonin; Arylalkylamine *N*-acetyltransferase; Circadian oscillator (Falcón, J. (797) 109)

Protein theory
Anesthesia; Inert gas; Inert gas narcosis; Lipid theory (Abraini, J.H. (808) 300)

Protein trafficking
Phosducin; Green fluorescence protein; Confocal microscopy; Fusion protein; G proteins; Prostaglandin e1 (Schulz, R. (790) 347)

Proteoglycan
Glycosaminoglycan; Extracellular matrix chondroitin sulfate; Lectin; Layer 5 pyramidal neurons (Ojima, H. (786) 274)

Chondroitin sulfate; Neurocan; Rat brain; Perineuronal net; Glia (Matsui, F. (790) 45)

Protirelin
Kindling; TRH; Epilepsy; Anticonvulsant; Drug delivery (Kubek, M.J. (809) 189)

Proto-oncogene
Immunohistochemistry; Excitotoxicity; Purkinje cell; Signal transduction; Granule cell; Stellate/basket cell; Undercutting the cortex (Chen, S. (795) 87)

PrP
Scrapie; Astrocyte; GFAP; Hamster (Ye, X. (809) 277)

P-selectin
E-selectin; Rat; Middle cerebral artery occlusion; Embolic stroke; Thrombotic stroke (Zhang, R. (785) 207)

Pseudopregnancy
Dorsal raphe nucleus; Prolactin; Neural transection; Radioimmunoassay; Rat (Maekawa, F. (813) 195)

Pseudorabies virus
Autonomic nervous system; Cardiovascular regulation; Emotion; Defense reaction; Pain; Periaqueductal gray matter; Precommissural nucleus; Stellate ganglion (Jansen, A.S.P. (784) 329)

Barrington's nucleus; Pontine micturition center; Distal colon; Locus coeruleus; Irritable bowel syndrome; Transsynaptic tracing; Retrograde tracing (Pavcovich, L.A. (784) 355)

Autonomic nervous system; Fever; Herpes virus; Hypothalamus; Medulla oblongata; Oxytocin; Paraventricular hypothalamic nucleus; Periaqueductal gray matter; Preoptic region; Raphe magnus; Sympathetic nervous system; Temperature regulation; Viral transneuronal tracing (Smith, J.E. (786) 153)

Autonomic nervous system; Cardiac function; Defense reaction; Emotion; Fight-or-flight response; Lateral hypothalamic area; Paraventricular hypothalamic nucleus; Periaqueductal gray matter; Precommissural nucleus; Raphe magnus nucleus (Farkas, E. (792) 179)

Psychomotor stimulant
Stereotypy; Osmotic pump; Animal model; Addiction (Dalia, A.D. (797) 29)

Methylphenidate; MK-801; Behavioral sensitization; Motor activity (Sripada, S. (814) 78)

Psychoneuroimmunology
Cytokine; Interleukin-1; Interleukin-2; Interleukin-6; Intracranial self stimulation; Reward (Anisman, H. (779) 177)

Psychopharmacology
Blood brain barrier; Bradykinin agonist; Drug delivery; Analgesia; Opiates (Emerich, D.F. (801) 259)

Psychosine
Hippocampus; Glutamate excitotoxicity; Lysosphingolipid; Neuroprotection; Quisqualate (Hodgson, D.M. (802) 1)

Psychostimulants
Reward; Reinforcement; Addiction; Turning; Locomotion; Rearing; Grooming; Neurokinins; Opiates; Ventral striatum; Rat (Schildein, S. (790) 185)

pTRUF3-aR1
pJDT95dlk-aR1; Adeno-associated virus (Shafron, D.R. (784) 325)

P-type voltage-sensitive calcium channel
Neuropathic pain; N-type voltage-sensitive calcium channel; Chronic constriction injury; Partial sciatic nerve injury; Thermal hyperalgesia (Yamamoto, T. (794) 329)

PTZ kindling
$GABA_B$ receptor antagonists; CGP compounds; $GABA_B$ binding; Learning; Memory retention (Getova, D. (809) 182)

Puberty
Estrogen receptor; Progestin receptor; Medial preoptic area; Lordosis (Olster, D.H. (790) 254)

Pudendal nerve
Descending modulation; Intrathecal administration; 5-HT_3 receptors; Micturition; Segmental reflex (Espey, M.J. (798) 101)

Pungent
Pain; Desensitization; Taste; Tachyphylaxis (Liu, L. (809) 246)

Pupil
Pretectum; Reflex (Young, M.J. (787) 191)

Purification
Neuroprotection; Dopamine; DA receptor; Trophic factor (Ling, Z.D. (791) 137)

Purine
Kainate; Excitotoxicity; Hippocampus; CGS21680; ZM241385; Adenosine; A2 receptors (Jones, P.A. (800) 328)

Brain; Hypoxia; Pyrimidine; K_{ATP} channel; Diazoxide; Tolbutamide (Pissarek, M. (812) 164)

Purinergic receptor
Adenosine; Astroglia; Ca^{2+} (Pilitsis, J.G. (798) 294)

Purinoceptor
Cerebellar granule cell; Apoptosis; Adenosine; ADP (Vitolo, O.V. (809) 297)

P2X receptor; ATP; Hypothalamus; Brain; Central nervous system (Xiang, Z. (813) 390)

P_2-Purinoceptor
Antinociception; Intrathecal drug application; Reactive red 2; ATP; Rat thalamus (Driessen, B. (796) 284)

Purinoreceptor
Pyramidal neocortical neuron; Rat brain slice; Intracellular calcium store; Plasmalemmal channel (Lalo, U. (799) 285)

Purkinje cell
Advanced glycation end product; Dog; Neuron; Cerebellum; Aging (Weber, K. (791) 11)

Voltage-gated Ca^{2+} channel; Ca^{2+} imaging; Patch clamp recording; ω-Agatoxin-IVA; Ni^{2+} (Watanabe, S. (791) 43)

Ang II receptor subtype; AT_{1A}; AT_{1B}; 3-Acetylpyridine; Climbing fiber (Jöhren, O. (793) 176)

Iron regulatory protein; Bergmann glia; Immunohistochemistry; Chicken brain (Cho, S.S. (794) 174)

Immunohistochemistry; Excitotoxicity; Signal transduction; Proto-oncogene; Granule cell; Stellate/basket cell; Undercutting the cortex (Chen, S. (795) 87)

Laminin; Cerebellar culture; Granuloprival culture; Dendritic spine; Dendrite; Astrocyte; Neurite promoting factor; Synapse; Development; Regeneration (Seil, F.J. (795) 112)

Vestibular compensation; Protein kinase C; Cerebellum; Labyrinthectomy; Signal transduction protein (Balaban, C.D. (804) 253)

Putamen
Substantia nigra pars reticulata; Prefrontal cortex; Motor cortex; Caudate nucleus; Subthalamic nucleus; Thalamus; Monkey (Kitano, H. (784) 228)

Corticostriatal input; Primary motor cortex; Supplementary motor area; Motor control; Monkey (Takada, M. (791) 335)

PVN
NOS; Heart failure; Sympathetic nerve activity (Zhang, K. (786) 219)

P2X receptor
Purinoceptor; ATP; Hypothalamus; Brain; Central nervous system (Xiang, Z. (813) 390)

Pyramidal cell
Neuronal death; Axotomy; Brain injury (Fishman, P.S. (779) 231)

Sigma receptors; NMDA receptors; Medial prefrontal cortex (Liang, X. (807) 208)

Pyramidal neocortical neuron
Rat brain slice; Purinoreceptor; Intracellular calcium store; Plasmalemmal channel (Lalo, U. (799) 285)

Pyramidal neuron
Cyclothiazide; Excised patch; CA1; Theta burst; Long-term potentiation, LTP; Synaptic plasticity (Arai, A. (799) 235)

Ethanol; Somatosensory cortex; Intracellular recording; Sensory processing; Membrane property (Sessler, F.M. (804) 266)

Ca^{2+} current; Hippocampal CA1 region; Nilvadipine; Amlodipine; Flunarizine (Ishibashi, H. (813) 121)

Pyriform (piriform) cortex
Dentate gyrus; Fast wave; Olfaction; Organic solvent; Phytochemical; Rhinencephalon (Zibrowski, E.M. (800) 207)

Pyrimidine
Brain; Hypoxia; Purine; K_{ATP} channel; Diazoxide; Tolbutamide (Pissarek, M. (812) 164)

Pyrimidine compound
MS-818; Migratory Schwann cell; Film model; Neural regeneration (Torigoe, K. (787) 337)

Pyrokinin
Angiotensin I-converting enzyme; Insect; Neurotransmitter; Neuropeptide metabolism; Neuropeptide processing; FXPRLamide; Locustamyotropin; Pheromone biosynthesis activating neuropeptide (Schoofs, L. (785) 215)

Pyruvate dehydrogenase
Hyperglycemia; Energy metabolism; Ischemia (Katayama, Y. (788) 302)

PYY
Acetylcholine; Microdialysis; HPLC; Feeding behavior; Hyperphagia (Hagan, M.M. (805) 20)

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Quantification
Auditory brainstem response; Calcium-binding protein; Cochlear nucleus; Noise; Immunocytochemistry (Idrizbegovic, E. (800) 86)

Terminal nerve; GnRHir cell; Reconstruction; Common mole-rat (*Cryptomys* sp.) (Jastrow, H. (813) 229)

Quantitative autoradiography
$5\text{-}HT_{1B}$ receptor; Up-regulation; Reinnervation; Graft; Suprachiasmatic nucleus; Rat (Manrique, C. (788) 332)

Bicuculline; Early seizure; Rat; 2-D-[^{14}C]deoxyglucose; Brain functional deficit (Doriat, J.-F. (800) 114)

Quantitative trait loci
B6 mice; D2 mice; Seizure; Epilepsy; Electroconvulsive shock; Genetics (Ferraro, T.N. (813) 207)

Quercetin
Heat shock; Cyclic AMP (cAMP); Heat shock protein 72 (HSP72); Heat shock cognate protein 70 (HSC70); N18TG2 cells (Zensho, H. (790) 278)

Acidosis; Dimethyl sulfoxide; Astrocyte; In vitro; Metallothionein; Acidosis; mRNA; Bioflavonoid (Conklin, D.R. (794) 304)

Quin 2
Nerve injury-induced hyperalgesia; Partial nerve ligation; SNX-111; SNX-230; Nifedipine; Voltage-dependent calcium channel; Nociceptive flexion reflex (White, D.M. (801) 50)

Quinolinic acid
Basal ganglia; Striatum; Globus Pallidus; Lesion; Water maze; Huntington's disease; Rat (Joel, D. (787) 143)

Sparse fur; Ornithine carbamoyltransferase deficiency; Neurotoxicity; NMDA receptor (Hopkins, K.J. (797) 209)

Lesion; Spinal trigeminal nucleus; Orofacial; Nociception; Rat (Luccarini, P. (803) 79)

Quinpirole
c-*fos*; Shuttle box; Striatum; Dopamine; D_2 receptor; Caudate-putamen; Immediate-early genes (Struthers, W.M. (785) 347)

Quinto-frontal
Comparative anatomy; Development; Dove; Feeding; Trigeminal (Ye, S. (788) 349)

Quipazine
VMN; DOI; TFMPP; Ketanserin; Serotonin (Wolf, A. (779) 84)

Quisqualate
Hippocampus; Glutamate excitotoxicity; Lysosphingolipid; Neuroprotection; Psychosine (Hodgson, D.M. (802) 1)

Quisqualate receptor
Classical conditioning; Nictitating membrane; α-Amino-3-hydroxy-5-methylisoxazole-4-propionic acid; 6-Cyano-7-nitroquinoxaline-2,3-dion; Cerebellum; Autoradiography (Hauge, S.A. (803) 9)

Quisqualic acid
Nucleus basalis magnocellularis; Excitotoxicity; Nerve growth factor; Choline acetyltransferase; Low-affinity nerve growth factor receptor (Winkler, J. (788) 1)

Ethylcholine mustard aziridinium (ECMA or AF64A); Muscarinic acetylcholine receptor (mAChR); Retina; Form-deprivation myopia (Fischer, A.J. (794) 48)

Central pain; Chromaffin cell; Allodynia; Allograft (Brewer, K.L. (798) 83)

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Rabbit
Olfactory bulb; Glomerulus; Mitral cell; Morphometry; Rat (Royet, J.-P. (788) 35)

Classical conditioning; Eyeblink; Protein synthesis; Interposed nucleus; Intermediate cerebellum (Bracha, V. (788) 169)

D_3 dopamine receptor; [^{3}H]PD 128907; Rat; Mouse; Guinea pig; Dog; Human (Levant, B. (800) 269)

Respiratory control; Parabrachial nuclear complex; DL-homocysteic acid; Apneusis (Mutolo, D. (807) 182)

Raccoon
Choline acetyltransferase; $p75^{NTR}$; Calbindin; Calcium-binding protein; Basal forebrain; Neostriatum (Tremere, L. (797) 351)

Radial-arm maze
NMDA receptor; AP5; Hippocampus; Spatial memory; Open-field; Rat (Kawabe, K. (781) 300)

BXSB; C57BL/6; NZB; Inbred mice; Working memory; Reference memory; Spatial; Learning; Memory load; Win-shift (Hyde, L.A. (785) 236)

192-IgG-saporin; Immunotoxin; Cingulate cortex; Hippocampus; Working memory; Spatial memory (Dougherty, K.D. (810) 59)

NMDA receptor; Strychnine-insensitive glycine site; Hippocampus; D-Cycloserine; MK-801; Spatial memory; Rat (Kawabe, K. (814) 226)

Radial component
Somesthetic information processing; Somatosensory-evoked magnetic field (SEF); Somatosensory-evoked potential (SEP); Stimulus rate; Tangential component (Nagamine, T. (791) 200)

Radioimmunoassay
Gonadotropin-releasing hormone; Cerebrospinal fluid; Nervus terminalis; Elasmobranch; Terminal nerve (Moeller, J.F. (806) 104)

Dorsal raphe nucleus; Prolactin; Pseudopregnancy; Neural transection; Rat (Maekawa, F. (813) 195)

Radioligand
Anesthetic; Benzodiazepine; GABA; Allosterism (Bruner, K.R. (806) 122)

Radioligand binding
Human hypothalamus; Obesity; Appetite regulation; Y1 receptor; Y2 receptor; Y5 receptor; mRNA Analysis (Statnick, M.A. (810) 16)

Rana pipiens
Visual system; $5\text{-}HT_1$ receptor; $5\text{-}HT_2$ receptor; Visual plasticity; Topographic map formation (Malayev, A.A. (781) 167)

Neuromuscular plasticity; Jaw muscle; Retrograde tracer (Alley, K.E. (813) 187)

Rapamycin
FK506; Ca^{2+}-dependent K^+ channel; Rat cultured hippocampal neuron; Single-channel activity (Terashima, A. (786) 255)

Raphe
NMDA; 5-HT; Frontal cortex; WAY-100635; Intracerebral dialysis (Pallotta, M. (783) 173)

Raphe magnus
Autonomic nervous system; Fever; Herpes virus; Hypothalamus; Medulla oblongata; Oxytocin; Paraventricular hypothalamic nucleus; Periaqueductal gray matter; Preoptic region; Pseudorabies virus; Sympathetic nervous system; Temperature regulation; Viral transneuronal tracing (Smith, J.E. (786) 153)

Raphe magnus nucleus
Autonomic nervous system; Cardiac function; Defense reaction; Emotion; Fight-or-flight response; Lateral hypothalamic area; Paraventricular hypothalamic nucleus; Periaqueductal gray matter; Precommissural nucleus; Pseudorabies virus (Farkas, E. (792) 179)

Raphe nuclei
c-*fos*; Immediate early gene; Supramammillary region; Hypothalamus; Hippocampus; Stress; Arousal; Double labeling (Wirtshafter, D. (789) 331)

Rapid-eye movement (REM) sleep
Arachidonic acid; Pain; Locomotor activity (Murillo-Rodríguez, E. (812) 270)

Deprivation; Recovery; Ambient Temperature; Homeostasis (Amici, R. (781) 252)

Amygdala; Electrical stimulation; PGO wave; Sleep (Deboer, T. (793) 305)

Rapid Golgi
Parallel fiber; Length; Cerebellum; Cerebellar (Huang, C.-m. (801) 211)

Ras
Nerve growth factor; MAP kinase; PC12 cells; Neurite; MEK (Sano, M. (785) 299)

Rat
2,5-Anhydro-D-mannitol; c-Fos; Feeding behavior; Food intake; Hunger; Metabolism (Horn, C.C. (779) 17)

Medial thalamus; Visceral pain; Morphine; Naloxone; Electrophysiological recording (Yang, S.-w. (779) 41)

Superior cervical ganglion; Cochlea; Norepinephrine; Dopamine; HPLC (Gil-Loyzaga, P. (779) 53)

Antinociception; Pain; Opioid; Amygdala; Periaqueductal gray; Rostral medulla; Tail flick; Heart rate; Anesthesia (Helmstetter, F.J. (779) 104)

Brain; Cerebral blood flow; Cerebral metabolic rate; Glycine; Antagonist; N-methyl-D-aspartate (Morimoto, Y. (779) 170)

AMPA; Cerebellar granule cell; Metabolic inhibition; Neurotoxicity; Cyanide, NaCN; DNA fragmentation; Glutamate; $[Ca^{2+}]_i$ (Cebers, G. (779) 194)

Carbonic anhydrase isozyme II; Ruffini ending; Mechanoreceptor; Periodontal ligament (Ochi, K. (779) 276)

PNMT; Catecholamine; Hypothalamus; mRNA; RT-PCR (Andreassi II, J.L. (779) 289)

Enkephalin; Hypoglossal nucleus; Tongue; Respiration; Upper airway (Aldes, L.D. (780) 67)

Neuromedin K receptor; Dopaminergic neuron; Co-localization; Immunocytochemistry; Midbrain (Chen, L.-W. (780) 150)

Imidazoline receptor; Behavior; Antihypertensive drug; Neuron; Glia; Immunocytochemistry (Ruggiero, D.A. (780) 270)

Neuroinflammation; Basal forebrain; Acetylcholine; Alzheimer's disease; Model (Hauss-Wegrzyniak, B. (780) 294)

Methyl palmoxirate; c-Fos; Feeding behavior; Food intake; Hunger; Metabolism (Horn, C.C. (781) 8)

Dopamine; Dopamine receptor; A 68930 ((1*R*,3*S*)-1-aminoethyl-5,6-dihydroxy-3-phenylisochroman HCl); 7-OH-DPAT ((±) 7-hydroxy-2-(di-*n*-propylamino)tetralin HBr); Thermoregulation; Locomotor activity (Salmi, P. (781) 188)

Neuropathic pain; Clonidine; MK-801; Neurotoxicity; Activity (Jevtovic-Todorovic, V. (781) 202)

Neurocalcin; Calcium-binding protein; Dorsal root ganglia; Nodose ganglia; Trigeminal ganglia (Iino, S. (781) 236)

Chronoamperometry; Caudate nucleus; Reaction-time task; Auditory stimulation; Monoamine; Dopamine; Phasic response (Shinba, T. (781) 284)

NMDA receptor; AP5; Hippocampus; Spatial memory; Radial-arm maze; Open-field (Kawabe, K. (781) 300)

Neuropeptide Y; Microdialysis; Seizure; Dorsal hippocampus; Kainic acid (Husum, H. (781) 351)

Nucleus tractus solitarii; Baroreceptor reflex; Angiotensin II; Angiotensin III; Angiotensin AT_1 receptor; Angiotensin AT_2 receptor; Losartan; PD-123319; Amastatin (Luoh, H.F. (782) 73)

Subarachnoid hemorrhage; Cerebral blood flow; Autoregulation; Vasospasm (Yamamoto, S. (782) 194)

Peptide exposure; Gastrin-releasing peptide; Tolerance; BIM-26226; Brain (Plamondon, H. (782) 202)

Microdialysis; Dopamine; Self-stimulation; Stimulation-escape; Aversion (Rada, P.V. (782) 228)

Acidosis; Seizure susceptibility; Substantia nigra (Velíšek, L. (782) 310)

AMPA; Nucleus basalis magnocellularis; Pirenzepine; Gallamine; Acetylcholine; Somatosensory cortex (Raevsky, V.V. (782) 324)

Hypothermia; Protein kinase C; Phorbol 12,13-dibutyrate; Autoradiography; Cerebral ischemia; Middle cerebral artery occlusion (Tohyama, Y. (782) 348)

Choroid plexus; Histidine; Transport (Xiang, J. (783) 37)

Medullary visceral zone; Habenular nucleus; Fos; Tyrosine hydroxylase; Catecholamine (Li, T. (783) 51)

Brain; Basilar artery; Angiotensin II; Endothelin-1; Arginine vasopressin; Thromboxane; Stroke (Mayhan, W.G. (783) 326)

Closed-head injury; Brain edema; Blood-brain barrier; Neurological deficit; Acetylcholinesterase inhibitor (Chen, Y. (784) 18)

Strychnine; Ketamine; Bicuculline; Convergent neuron; Dorsal horn; Noxious immersion; Paw (McGaraughty, S. (784) 63)

Bed nucleus of the stria terminalis; Cocaine; D-1 receptor; Dopamine; Extended amygdala; SCH 23390; Self-administration (Epping-Jordan, M.P. (784) 105)

Aluminum; Fluoride; Neurotoxicity; Chronic; Cerebrovasculature; Neocortex; Hippocampus; Amyloid (Varner, J.A. (784) 284)

Feeding; Amygdala; Acetylcholine; Microdialysis; Hypoglycemia; Insulin; Glucose (Hajnal, A. (785) 41)

Cerebral ischemia; CLSM; Hippocampus; Calcium; Fluo 3; Fura Red (Grøndahl, T.Ø. (785) 58)

P-selectin; E-selectin; Middle cerebral artery occlusion; Embolic stroke; Thrombotic stroke (Zhang, R. (785) 207)

Endothelin-1; ET_A; ET_B; Endothelin receptor antagonist; Thrombin; Hirudin; Astrocyte (Hasselblatt, M. (785) 253)

Dorsal cochlear nucleus; Anteroventral cochlear nucleus; Muscimol; Frequency tuning (Paolini, A.G. (785) 309)

Anterograde tracing; Barrels; Biotinylated dextran amine; Cortical column; Corticostriatal; Neostriatum; Varicosities (Alloway, K.D. (785) 341)

Pentylenetetrazol kindling; Seizure; Glutamate receptor mRNA; Hippocampus (Lasoń, W. (785) 355)

Plasticity; Evoked potentials; EEG; FFT; Barrel field (Musiał, P. (786) 1)

RU28318; RU 38486; Corticosterone; Corticosteroid; Learning; Memory; Fear-conditioning (Cordero, M.I. (786) 11)

EEG; High-voltage spindle; 5-HT_2 antagonist; Age (Moyanova, S. (786) 55)

Focal ischemia; Middle cerebral artery; Penumbra zone; Ischemic depolarization; Spreading depression; Cerebrolysin; MK-801 (Koroleva, V.I. (786) 104)

Hypothalamic neuron; Temperature sensitivity; Opioid receptor agonist and antagonist; Opioid-hypothermia (Yakimova, K.S. (786) 133)

Neuronal cell death; Nerve transection; Calcium binding protein; Immunohistochemistry; In situ hybridisation (Dassesse, D. (786) 181)

Antidepressant; 1-(*m*-Chlorophenyl)-biguanide (mCPBG); ICS205-930; Forced swim test (Nakagawa, Y. (786) 189)

Agmatine; Clonidine displacing substance; Imidazoline receptor; Immunohistochemistry (Otake, K. (787) 1)

Basal ganglia; Striatum; Globus Pallidus; Quinolinic acid; Lesion; Water maze; Huntington's disease (Joel, D. (787) 143)

Guinea pig; Microwave fixation; Complete brain ischemia; Adenosine; Inosine; Hypoxanthine; Adenosine deaminase (Kobayashi, T. (787) 211)

BBB022; Middle cerebral artery occlusion; BBB; Evans blue (Belayev, L. (787) 277)

Nucleus accumbens; Paraventricular nucleus of the thalamus; Prefrontal cortex; Striatum; Thalamus (Bubser, M. (787) 304)

Hookworm-derived recombinant neutrophil inhibitory factor; Cerebral ischemia; Neutrophil; CD11b/CD18 integrin; Neuronal damage (Jiang, N. (788) 25)

Olfactory bulb; Glomerulus; Mitral cell; Morphometry; Rabbit (Royet, J.-P. (788) 35)

Endothelial nitric oxide synthase; Brain development; Vasculature; Immunohistochemistry; Tyramide-signal amplification (Töpel, I. (788) 43)

Hippocampal EEG; Spectral analysis; Intracavernous pressure; Penile erection; Papaverine; Negative feedback inhibition (Chang, A.Y.W. (788) 160)

Histamine H_3 receptor; Iodophenpropit binding; Hippocampus; Cerebral cortex; Noradrenaline release (Alves-Rodrigues, A. (788) 179)

Diffusion; Perfusion; Magnetic resonance imaging (MRI); Anti-ICAM-1; Focal cerebral ischemia (Jiang, Q. (788) 191)

6-Hydroxydopamine; Nigral transplant; Striatum; L-DOPA; 5-Hydroxytryptophan; Serotonin; Microdialysis (Ishida, Y. (788) 207)

Type VII adenylyl cyclase; Immunocytochemistry; In situ hybridization (Mons, N. (788) 251)

5-HT_{1B} receptor; Up-regulation; Reinnervation; Graft; Quantitative autoradiography; Suprachiasmatic nucleus (Manrique, C. (788) 332)

Water maze; Anisomycin; Learning; Hippocampus (Meiri, N. (789) 48)

Opioid receptors; Morphine; Lymphocytes; HPA axis; Nociception; Neuroimmunology (Mellon, R.D. (789) 56)

Hyperexcitability; Kindling; Hippocampus; Epilepsy (Elmér, E. (789) 111)

Dentate gyrus; Long-term potentiation; LTP decay; Lead (Pb); In vivo; Hippocampus; Neurotoxicity; Learning and memory (Gilbert, M.E. (789) 139)

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Reelin
Reeler; Ambiguus nucleus; Migration; Adenovirus (Fujimoto, Y. (811) 156)

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Brain injury; Sensorimotor cortex; Sensitive period; Use-dependency; Recovery of function; Neuroplasticity; Glutamate (Humm, J.L. (783) 286)

Reinforcement
Reward; Addiction; Turning; Locomotion; Rearing; Grooming; Neurokinins; Opiates; Psychostimulants; Ventral striatum; Rat (Schildein, S. (790) 185)

Ethanol; Self-administration; Sucrose; Cerebral metabolism; 2-[^{14}C]deoxyglucose method (Porrino, L.J. (791) 18)

In situ hybridisation histochemistry; Preprodynorphin; Preproenkephalin (Cowen, M.S. (796) 323)

Cannabinoid; Δ^9-Tetrahydrocannabinol; Perinatal exposure; Intravenous morphine self-administration; Opiate; Opioid neuron; Opioid receptor; Drug addiction (Vela, G. (807) 101)

Rat; Open field; Exploration; In vivo microdialysis; Acetylcholine; Learning; Novelty; Arousal; Attention; Aversion (Thiel, C.M. (812) 121)

Reinnervation
Repair; Graft; Extracellular recording (Zhou, W. (788) 202)

5-HT$_{1B}$ receptor; Up-regulation; Graft; Quantitative autoradiography; Suprachiasmatic nucleus; Rat (Manrique, C. (788) 332)

Hippocampus; Neocortex; Repair; Grafts; Behavior (Zhou, W. (792) 97)

Release
Metabotropic; [^{3}H]-GABA; Calcium; Cortical culture; Electrophysiology (Schaffhauser, H. (782) 91)

Dopamine; Methamphetamine; Transporter; Midbrain culture (Bennett, B.A. (782) 219)

Release mechanism
Taurine release; Hippocampal slice; Ischemia; Excitotoxicity (Saransaari, P. (807) 118)

REM
Glutamate; Histamine; Serotonin; γ-Aminobutyric acid (Nuñez, A. (804) 144)

REM sleep
Atonia; Glutamate; Nucleus magnocellularis of medulla; Nucleus paramedianus of medulla; Pontine inhibitory area; In vivo microdialysis (Kodama, T. (780) 178)

Paradoxical sleep; Rhythm; Oxygen; Hypothermia; Hyperoxia; Acetylcholine (Arnulf, I. (807) 160)

Rat; Carbachol; Acetylcholine; Pedunculopontine tegmental nucleus; Nucleus pontis oralis; Electroencephalogram; Cortex; Hippocampus (Kinney, G.G. (809) 307)

Renal sympathetic nerve activity
Central nervous system; Microinjection; Sympathetic nervous system (Matsumura, K. (798) 232)

Renaut body
Demyelination; Intraepidermal innervation; Medial plantar nerve; Pressure neuropathy; Tactile allodynia; Tactile hyperesthesia; Von Frey filament; Wallerian degeneration (Mizisin, A.P. (788) 13)

Renin
Angiotensin; Vasopressin; Angiotensin 1–7; Hypothalamic nucleus; Immunocytochemistry; Transgenic rat (Krob, H.A. (798) 36)

Repair
Reinnervation; Graft; Extracellular recording (Zhou, W. (788) 202)

Hippocampus; Neocortex; Reinnervation; Grafts; Behavior (Zhou, W. (792) 97)

Repeated administration
Dopamine; L-DOPA; Parkinson's disease; Brain microdialysis (Brannan, T. (784) 148)

Reperfusion
Heart; Ischemia; Afferent; Cardiac pain; Reflex; Autonomic (Gutterman, D.D. (790) 293)

Hyperglycemia; Cerebral ischemia; Nitric oxide; NOS inhibitor; Hydroxyl radical; Glutamate; Magnetic resonance imaging; Superparamagnetic iron oxide (Wei, J. (791) 146)

Propofol; Ischemia; Oxidative stress; Glutathione; Lipid peroxidation (De La Cruz, J.P. (800) 136)

Repetitive discharge
Tirilazad; Cat; Soleus; Motor nerve terminal; Post-tetanic potentiation; Edrophonium (Hall, E.D. (779) 346)

Repetitive hypoxia
Hypothermia; Hippocampal slice; Neuroprotection; DC-potential (Greiner, C. (786) 267)

Replacement therapy
Parkinson's disease; 6-Hydroxydopamine; Fixed-ratio discrimination training; Striatum; Accumbens; Dopamine; Apomorphine; Amphetamine (Van Keuren, K.R. (780) 56)

Representational map
Cortical feedback; Somatosensory response; Receptive field; Dorsal column (Malmierca, E. (810) 172)

Reserpine
Depression-model rat; In vivo microdialysis; 3-Methoxy-4-hydroxyphenylethyleneglycol (MHPG); 3,4-Dihydroxy-phenylacetic acid (DOPAC) (Yamashita, K. (785) 10)

Amphetamine; MDMA; Dopamine; Serotonin; In vivo dialysis; Striatum; Vesicular storage (Sabol, K.E. (806) 69)

Respiration
Central chemoreceptor; Glutamate; GABA; Calcineurin; cAMP (Miura, M. (780) 34)

Enkephalin; Hypoglossal nucleus; Tongue; Rat; Upper airway (Aldes, L.D. (780) 67)

Nucleus of the Tractus Solitarius; Pontine respiratory group; Bötzinger complex; Neural pathway (Zheng, Y. (782) 113)

Hypoxia; Noradrenaline; Rat; Pons; Guanabenz; Post-hypoxic frequency decline; SK&F-86466 (Coles, S.K. (794) 267)

Brainstem; In vitro; Newborn rat; Opioid; Temperature; Age (Takita, K. (800) 308)

Hypoglossal motoneuron; Norepinephrine; Medullary brain slice; Mouse (Selvaratnam, S.R. (805) 104)

Respiratory chain
Manganese; Aconitase; Mitochondria; Iron; Parkinson's diseases (Zheng, W. (799) 334)

Respiratory control
Rabbit; Parabrachial nuclear complex; DL-homocysteic acid; Apneusis (Mutolo, D. (807) 182)

Response suppression
Auditory cortex; Caudate–putamen; Cholinergic; EEG; Globus pallidus; Receptive field (Chernyshev, B.V. (793) 79)

Response to novelty
Neuropeptide Y; Y1 receptor; Rearing; NK cells; Granulocyte function (Von Hörsten, S. (806) 282)

Restraint
Acetylcholine; Hippocampus; Medial septum; Diagonal band; Handling; AMPA; NMDA; γ-Aminobutyric acid; Muscimol; Bicuculline (Moor, E. (789) 1)

Restraint stress
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ApoE-deficient mouse; Spatial memory; Corticosterone; mRNA expression (Zhou, Y. (788) 151)

RET
Amyotrophic lateral sclerosis; GDNF receptor; Spinal motoneuron; Immunocytochemistry (Duberley, R.M. (789) 351)

Retching
Tachykinin NK_1 receptor antagonist; GR205171, Substance P; Vomiting; Solitary nucleus; Vagus nerve (Fukuda, H. (802) 221)

Retention
Spermine; Neurotoxicity; Spatial learning; [^{3}H]PK11195 binding; Diazepam (Conway, E.L. (800) 10)

Reticular formation
Tectum; Superior colliculus; Tectoreticular; Geniculate; Lamprey (Zompa, I.C. (802) 27)

Tectoreticular pathway; Superior colliculus; Lamprey (Zompa, I.C. (804) 238)

Reticular thalamic nucleus
p75 neurotrophin receptor; Electron microscopy; Immunohistochemistry; Rat (Oda, S. (801) 116)

Reticulospinal neuron
Command system; Locomotion; Spike frequency adaptation; Delayed excitation; Bursting (Rouse, D.T. (779) 301)

Rostral ventrolateral medulla; Sympathetic nervous system; Intrareticular circuit; Cardiovascular control; Anterograde/retrograde axonal tracer (Granata, A.R. (781) 329)

Retina
GABA; Centrifugal fiber; Ganglion cell; Development; Lamprey (Anadón, R. (782) 297)

Cell death; Hypertensive eyes; Intraocular pressure; Retinal ganglion cells (Laquis, S. (784) 100)

Newt; Regeneration; Glutamate; Immunohistochemistry (Chiba, C. (785) 171)

Circadian rhythms; Melatonin; Retinal degeneration; Mouse (Tosini, G. (789) 221)

Bipolar cell; Color opponency; GABA; GABA receptor; Carp (Zhang, D.-Q. (792) 319)

Circadian rhythm; Melatonin; Dopamine; Microdialysis; Pigeon (Adachi, A. (792) 361)

Ethylcholine mustard aziridinium (ECMA or AF64A); Quisqualic acid; Muscarinic acetylcholine receptor (mAChR); Form-deprivation myopia (Fischer, A.J. (794) 48)

Retinal cell culture
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Retinal degeneration
Circadian rhythms; Retina; Melatonin; Mouse (Tosini, G. (789) 221)

Retinal ganglion cells
Cell death; Hypertensive eyes; Intraocular pressure; Retina (Laquis, S. (784) 100)

Retinal pigmented epithelium
Photoreceptors; trkB; BDNF; Trophic factors; Differentiation (Hackett, S.F. (789) 201)

Retinitis pigmentosa
Visual prosthesis; Optic nerve stimulation; Self-sizing spiral cuff electrode (Veraart, C. (813) 181)

Retrograde axonal transport
Phosphoinositide-3 kinase; PI3-kinase; Wortmannin; LY294002; Nerve growth factor (Reynolds, A.J. (798) 67)

Retrograde change
Brain macrophage; ED1; Ionized calcium binding adapter molecule 1; MHC class II antigen; Motor neuron degeneration; Proliferating cell nuclear antigen (Graeber, M.B. (813) 241)

Retrograde tracer
Immunohistochemistry; Co-localisation; Antipeptide antibody; Central nervous system; Analgesia (Schindler, M. (798) 25)

Lateral hypothalamic area; Zona incerta; Medial septal nucleus; Nucleus of diagonal band; Spinal cord; True-blue; Diamidino yellow; Anterograde tracer; Melanin-concentrating hormone; Neuropeptides (Bittencourt, J.C. (805) 1)

Thymus; Vagus nerve nuclei; Recurrent laryngeal nerve (Dovas, A. (809) 141)

Neuromuscular plasticity; Jaw muscle; *Rana pipiens* (Alley, K.E. (813) 187)

Retrograde tracing
Barrington's nucleus; Pontine micturition center; Distal colon; Locus coeruleus; Irritable bowel syndrome; Transsynaptic tracing; Pseudorabies virus (Pavcovich, L.A. (784) 355)

Anterograde tracing; Cholinergic; Nitric oxide synthase; Tyrosine hydroxylase; CGRP (Sang, Q. (809) 253)

Retrograde transport
Claustrum; Sensory zone; Cerebral cortex; Connection (Kowiański, P. (784) 199)

Reuptake
Olfaction; Noradrenaline; In vitro superfusion; Transporter; Memory/recognition (Shang, Y. (779) 119)

Reverse tolerance
Lithium; Methamphetamine; Ambulatory; Activity; c-Fos protein; Striatum; Geniculate nucleus (Namima, M. (782) 83)

Reverse transcriptase polymerase chain reaction
Morphine; Withdrawal; Abstinence; Cholinergic receptors; Blood pressure; Autoradiography; Rostral ventrolateral medulla (Zhang, L.C. (803) 114)

Reverse transcription-polymerase chain reaction
Cholesterol side-chain cleavage enzyme; 17α-Hydroxylase/c17, 20-lyase; 3β-Hydroxysteroid dehydrogenase/Δ^5-Δ^4-isomerase; Messenger RNA expression; Neurosteroids; Postnatal life; Rat brain (Kohchi, C. (801) 233)

Reversible inactivation
Amygdala; Nucleus tractus solitarius; Inhibitory avoidance; Memory; Bombesin (Rashidy-Pour, A. (814) 127)

Reward
Cytokine; Interleukin-1; Interleukin-2; Interleukin-6; Intracranial self stimulation; Psychoneuroimmunology (Anisman, H. (779) 177)

Event-related potential; Hippocampus; Neocortex; Amygdala; Nucleus accumbens; N1; P2; Attention (Ehlers, C.L. (780) 138)

Dopamine; Ventral tegmental area; Mesencephalon; Single-unit (Moisan, J. (786) 143)

Reinforcement; Addiction; Turning; Locomotion; Rearing; Grooming; Neurokinins; Opiates; Psychostimulants; Ventral striatum; Rat (Schildein, S. (790) 185)

Palatability; Feeding; c-Fos; Opioid; Naltrexone (Park, T.H. (805) 169)

Rewarding effect
Ethanol; Conditioned place preference paradigm; Foot shock stress; μ-Opioid receptor; δ-Opioid receptor (Matsuzawa, S. (803) 169)

***R*-flurbiprofen**
Immunoreactive substance P; Intraspinal release; *S*-flurbiprofen; Inflammation; Nonsteroidal anti-inflammatory drug (Schaible, H.-G. (798) 287)

RG2 glioma
Blood–brain barrier; Bradykinin; B2 receptor; Brain tumor (Matsukado, K. (792) 10)

Rheobase and chronaxie
Adenosine; Peripheral nerves; Conduction velocity; Young and old (Tekkök, S. (813) 268)

Rhesus monkey
Hypothalamus; Preoptic area; Sex difference; Cytoarchitecture; Human (Byne, W. (793) 346)

Motor system and sensorimotor integration; Oculomotor system; Saccadic eye movement; Craniocentric representation; Supplementary eye field (Tehovnik, E.J. (795) 287)

Rearing environment; Corpus callosum; Cerebral cortex; MRI; Cognition (Sánchez, M.M. (812) 38)

Rhinal cortex
Long-term potentiation (LTP); Perirhinal; Depotentiation; Hippocampus (Cousens, G. (780) 95)

Rhinencephalon
Dentate gyrus; Fast wave; Olfaction; Organic solvent; Phytochemical; Pyriform (piriform) cortex (Zibrowski, E.M. (800) 207)

Rhythm
Immediate–early gene; *Arvicanthis niloticus*; Diurnal; Suprachiasmatic nucleus; Fos (Katona, C. (791) 27)

Circadian; Entrainment; Muscarinic; Suprachiasmatic; Hypothalamus; Cerebral cortex; Receptor (Bina, K.G. (797) 143)

Paradoxical sleep; REM sleep; Oxygen; Hypothermia; Hyperoxia; Acetylcholine (Arnulf, I. (807) 160)

Rhythm generation
Locomotion; Cyclic inhibition; Potassium; Walking; Motoneuron (Büschges, A. (783) 262)

Ventrolateral medulla; Ventral respiratory group; Propriobulbar neuron; Nucleus ambiguus; Medulla oblongata (Sun, Q.-J. (809) 204)

Ribosome
Deafferentation; Nucleus magnocellularis; Cell death; Auditory system; Cochlear nucleus (Hyson, R.L. (809) 214)

Righting reflex
Wobbler mouse; Motoneuron disease; Early detection; Behavior; Degeneration (Bose, P. (813) 334)

Risperidone
Striatum; Globus pallidus; Dopamine; Serotonin; GABA (Grimm, J.W. (801) 182)

Ritanserin
5-Hydroxytryptamine; Brain; Cerebral blood flow; Migraine (Gold, L. (783) 188)

RNase protection
Interleukin; Tumor necrosis factor; Leptin; Neuropeptide Y; Opioid; Glucocorticoid; Corticotropin; Endotoxin; Nervous system; Cerebellum; Hippocampus; Hypothalamus; Feeding; Food intake; Competitive RT–PCR (Gayle, D. (795) 77)

RO19-4603
Alcohol; Operant responding; Alcohol-preferring (P) rat; Benzodiazepine antagonist; TBPS (June, H.L. (784) 256)

Ro 61-1790
Traumatic brain injury; Endothelin-1; Heat shock protein; Microglia (Sato, M. (809) 39)

Rod
Circadian rhythm; Phase shift; Cone; *rd* mouse (Yoshimura, T. (779) 188)

Rodent
Testosterone; FSH; Testis; Body weight; Sex difference; Free-running; Diurnal (Goel, N. (792) 229)

Rosenthal fiber
4-Hydroxy-2-nonenal; Alexander's disease; Immunohistochemistry (Castellani, R.J. (787) 15)

Rostral medulla
Antinociception; Pain; Opioid; Amygdala; Periaqueductal gray; Tail flick; Heart rate; Rat; Anesthesia (Helmstetter, F.J. (779) 104)

Rostral ventral medulla
Descending facilitation; Secondary hyperalgesia; Plasticity (Calejesan, A.A. (798) 46)

Rostral ventrolateral medulla
Reticulospinal neuron; Sympathetic nervous system; Intrareticular circuit; Cardiovascular control; Anterograde/retrograde axonal tracer (Granata, A.R. (781) 329)

Acetylcholine; Parabrachial nucleus; Sympathoexcitatory neuron; Pressor response; Scopolamine (Kubo, T. (789) 23)

Hypothalamic paraventricular nucleus; Fos immunoreactivity; Haemorrhage (Badoer, E. (791) 317)

Hypothalamic paraventricular nucleus; Fos immunoreactivity; Hypotension (Badoer, E. (801) 224)

Paraventricular nucleus; Spinal cord; Collateral (Shafton, A.D. (801) 239)

Morphine; Withdrawal; Abstinence; Cholinergic receptors; Blood pressure; Autoradiography; Reverse transcriptase polymerase chain reaction (Zhang, L.C. (803) 114)

Aortic depressor nerve; Barosensitive neuron; Barosensitivity; Coefficient of variation; Firing rate; Skewness; Neurogenic hypertension (Han, Y.M.Y. (813) 262)

Rostral ventromedial medulla
C-fibre; Flexor reflex; Wind-up; Spino-bulbospinal; Inhibitory feed-back mechanism (Gozariu, M. (792) 168)

Pain; Analgesia; Morphine; Morphine-6β-glucuronide; Periaqueductal gray; Locus coeruleus (Krzanowska, E.K. (799) 329)

RP3 monoclonal antibody
Neutrophil depletion; Blood–brain barrier; Cerebritis; Tissue injury; Cerebrovascular permeability (Lo, W.D. (802) 175)

2*R*,4*R*-APDC
Anticonvulsant; Epileptogenesis; Group II metabotropic glutamate receptor; Glutamate; Kindling (Attwell, P.J.E. (787) 286)

RT-PCR
PNMT; Catecholamine; Hypothalamus; Rat; mRNA (Andreassi II, J.L. (779) 289)

RU 38486
RU28318; Corticosterone; Corticosteroid; Learning; Memory; Fear-conditioning; Rat (Cordero, M.I. (786) 11)

RU28318
RU 38486; Corticosterone; Corticosteroid; Learning; Memory; Fear-conditioning; Rat (Cordero, M.I. (786) 11)

RU-486
Stress; Opioid; Proenkephalin; CRH; mRNA; Hypothalamus (García-García, L. (786) 215)

Ruffini ending
Carbonic anhydrase isozyme II; Mechanoreceptor; Periodontal ligament; Rat (Ochi, K. (779) 276)

Regeneration; Periodontal ligament; Growth-associated protein 43; Inferior alveolar nerve; Terminal Schwann cell; Nerve injury (Youn, S.H. (787) 41)

Calretinin; Regeneration; Mechanoreceptor; Periodontal ligament; Inferior alveolar nerve; Rat (Hiroshima, K. (807) 218)

RU 24969, TFMPP, Hypothalamic paraventricular nucleus
Neuropeptide Y; DOI; Serotonin; Food intake; Energy substrate utilization (Currie, P.J. (803) 212)

RVLM
Catecholamine; Pacemaker; Adrenoceptor; Sympathetic nervous system (Piguet, P. (796) 1)

S

S-100
Calcium binding protein; Neuropeptide Y; Reactive neuron; Dorsal root ganglion nerve cell; Sciatic nerve transection (Huang, Y.-L. (785) 351)

Steroid hormone; Neurosteroid; Aging; Immunocytochemistry (Legrand, A. (802) 125)

Saccadic eye movement
Motor system and sensorimotor integration; Oculomotor system; Craniocentric representation; Supplementary eye field; Rhesus monkey (Tehovnik, E.J. (795) 287)

Sacral dorsal commissural nucleus
Taurine; Acutely dissociated neurons; Nystatin perforated patch clamp; Chloride current; Strychnine-sensitive glycine receptor (Wang, D.-S. (792) 41)

Saline-induced muscle pain
Pressure pain sensibility; Descending and segmental inhibitory control (Graven-Nielsen, T. (787) 203)

Salivary gland
Central regulation of salivation; Viral tracing; Organum vasculosum of the lamina terminalis; Subfornical organ; Median preoptic nucleus; Preoptic area; Insular cortex (Hübschle, T. (806) 219)

Salt loading
Opiate tolerance; Oxytocin; PreproCCK mRNA expression (Munro, G. (780) 190)

Sarmesin
Pentylenetetrazol kindling; Angiotensin II; Adenosine agonists and antagonist (Georgiev, V.P. (779) 259)

Satiety
Xenin; Intracerebroventricular injection; Hypothalamic injection; Feeding behavior; Food intake (Alexiou, Ch. (800) 294)

Nucleus of the solitary tract; Pontine parabrachial nucleus; Area postrema; Emetic drug; GLP-1; Anorexia (Thiele, T.E. (801) 164)

S100β
Astrocyte; Neurotrophic factor; Synaptic plasticity; NAN-190; Hippocampal formation; Electron microscopy (Wilson, C.C. (782) 235)

SB209670
Spinal cord injury; Endothelin; Axonal degeneration (Uesugi, M. (786) 235)

S100B
Sprouting; Neurotropic factor; Axon growth; Astrogliosis; Glial-released protein; Hippocampus (McAdory, B.S. (813) 211)

S-100β protein
Brain injury; Gamma irradiation; Astrocyte proliferation; Autoradiography; Immunocytochemistry; GFAP; Developing rat (Setkowicz, Z. (803) 122)

Scanning electron microscopy
Amyloid; Alzheimer's disease; Neuronal culture; GABA immunocytochemistry; Image analysis (Pakaski, M. (796) 239)

Scanning transmission electron microscopy
Ultrastructure; Assembled tau filaments; Paired helical filaments; Mass density; Neurodegenerative disorders (Ksiezak-Reding, H. (814) 86)

Scatter factor
Hepatocyte growth factor; Alzheimer's disease (AD); cMet; Growth factor (Fenton, H. (779) 262)

Scavenging effect
Pergolide; Dopamine agonist; Parkinson's disease; Free radicals; Lipid peroxidation; Antioxidant; Electron spin resonance (Gómez-Vargas, M. (790) 202)

SCH23390
Bed nucleus of the stria terminalis; Cocaine; D-1 receptor; Dopamine; Extended amygdala; Rat; Self-administration (Epping-Jordan, M.P. (784) 105)

Fear-potentiated startle; Amygdala; Nucleus accumbens; Dopamine D_1 receptor; Mesoamygdaloid DA (Lamont, E.W. (795) 128)

Methamphetamine; Behavioral sensitization; Activity-regulated cytoskeleton-associated protein; In situ hybridization; MK-801 (Kodama, M. (796) 273)

Schedule-feeding
Anorexia; Anti-obesity peptide; NPY; Hypothalamus (Chance, W.T. (803) 39)

Schistocerca gregaria
Soluble guanylyl cyclase; Cyclic-GMP; Locust; Nitric oxide (Elphick, M.R. (800) 174)

Schizophrenia
Ketamine; NMDA; Limbic system; Hippocampus; Prefrontal cortex; Cingulate cortex (Duncan, G.E. (787) 181)

Parkinsonism; Haloperidol pyridinium; Reduced haloperidol pyridinium; Haloperidol tetrahydropyridine (Wright, A.M. (788) 215)

Methylazoxy methanol acetate; Prenatal development; Entorhinal cortex; Frontal cortex; Rat (Talamini, L.M. (789) 293)

6-Hydroxydopamine; Mesocortical; In vivo; Neurophysiology (Harden, D.G. (794) 96)

Glycine; Nucleus accumbens; Ventral pallidum; Glutamate; Sensorimotor gating (Kretschmer, B.D. (798) 204)

Human influenza virus; Second trimester of pregnancy; Mice; Hippocampus; SNAP-25; Autism (Fatemi, S.H. (800) 1)

Dopamine; Nicotine; Stress; Rat brain; Prefrontal cortex (George, T.P. (801) 36)

Basal ganglia; Adenosine 2a receptors; [] CGS21680; Postmortem brain (Kurumaji, A. (808) 320)

Interleukin-1; Interleukin-2; Interleukin-6; Exploration; Attention (Zalcman, S. (811) 111)

Ketamine; NMDA; Animal model; Clozapine; Haloperidol; Limbic system; Hippocampus (Duncan, G.E. (812) 65)

Schwann cell
Demyelination; Myelination index; Neural plasticity; Spinal cord contusion; Paraplegia (Salgado-Ceballos, H. (782) 126)

Peripheral nerve; Regeneration; Acellular; Blood vessel; Macrophage (Fugleholm, K. (792) 309)

Macrophage; Wallerian degeneration; Silica; Cell culture (Kubota, A. (802) 254)

8-Bromo cyclic AMP; Mitogen-activated protein kinase (MAPK); S6 kinase; Signal transduction (Mutoh, T. (810) 274)

Sciatic nerve
NFκB; Immunocytochemistry; Electron microscopy; Axotomy; Chronic constriction injury; Dorsal root ganglion (Ma, W. (797) 243)

Sciatic nerve axotomy
Astrocyte; Microglia; Glial fibrillary acidic protein (Gilmore, S.A. (806) 113)

Sciatic nerve transection
Calcium binding protein; S-100; Neuropeptide Y; Reactive neuron; Dorsal root ganglion nerve cell (Huang, Y.-L. (785) 351)

SCN (Suprachiasmatic Nucleus)
IGL (Intergeniculate Leaflet); Circadian rhythm; Comparative anatomy; vLGN (Ventral Lateral Geniculate Nucleus); Neuropeptide Y (Chevassus-au-Louis, N. (805) 213)

Scopolamine
Neurotoxicity; Muscarinic receptor; Excitatory amino acid (Rami, A. (788) 323)

Acetylcholine; Parabrachial nucleus; Rostral ventrolateral medulla; Sympathoexcitatory neuron; Pressor response (Kubo, T. (789) 23)

EEG spectra; Interhemispheric asymmetry; Physostigmine (Vorobyov, V.V. (794) 299)

Scopolamine-induced amnesia
Sigma$_1$ (σ_1) receptor; Neuroactive neurosteroid; Y-maze; Water-maze; Learning and memory; Mouse (Urani, A. (799) 64)

Scrapie
Astrocyte; GFAP; PrP; Hamster (Ye, X. (809) 277)

Search coil
Vestibular compensation; GABA; Eye movement (Magnusson, A.K. (795) 307)

Seasonal rhythms
HIOMT; European hamster; Neuropeptide Y; Pineal; Melatonin; 5-methoxytryptophol (Ribelayga, C. (801) 137)

Secondary generalization
Experimental epilepsy; Kainic acid; Perirhinal cortex; Sensorimotor cortex (Imamura, S.-i. (800) 323)

Secondary hyperalgesia
Descending facilitation; Rostral ventral medulla; Plasticity (Calejesan, A.A. (798) 46)

Second trimester of pregnancy
Human influenza virus; Mice; Hippocampus; SNAP-25; Schizophrenia; Autism (Fatemi, S.H. (800) 1)

Segmental reflex
Descending modulation; Intrathecal administration; 5-HT_3 receptors; Micturition; Pudendal nerve (Espey, M.J. (798) 101)

Seizure
Kindling; Temporal lobe epilepsy; Fear; Defensive behavior; Hippocampus; Caudate; Amygdala (Kalynchuk, L.E. (779) 149)

Glutamate; Kainate; AMPA; Receptor; DBA mice; C57 mice; Epilepsy (Kürschner, V.C. (780) 1)

Kindling; Mossy fiber sprouting; Synaptic reorganization; Amygdala; Dentate gyrus; Hippocampus; Temporal lobe epilepsy (Armitage, L.L. (781) 37)

Corticotropin-releasing factor; Hypothalamus; Extrahypothalamus; Neuronal injury; Neuronal degeneration (Piekut, D.T. (781) 100)

Neuropeptide Y; Microdialysis; Rat; Dorsal hippocampus; Kainic acid (Husum, H. (781) 351)

Calpain; Hippocampus; Glutamate receptor; Kainate (Bi, X. (781) 355)

Brain; Creatine kinase; White matter; Gray matter; Nuclear magnetic resonance spectroscopy (Holtzman, D. (783) 19)

Pentylenetetrazol kindling; Glutamate receptor mRNA; Hippocampus; Rat (Lasoń, W. (785) 355)

Ethanol; Withdrawal; Adenosine; Kindling; Mouse (Jarvis, M.F. (786) 80)

Epilepsy; Kainic Acid; Hippocampus; Granule cell; Cell proliferation (Gray, W.P. (790) 52)

Epilepsy; Hippocampus; Inhibition; Silent period; Temporal lobe (Mangan, P.S. (799) 183)

Olfactory cortex; Inhibition; Epilepsy; Kindling (Löscher, W. (800) 21)

Glutaric acid; Organic acidemia; Neurotoxicity; GABA; Glutamate; Turning behavior; Striatum (Lima, T.T.F. (802) 55)

Cortistatin; Kainic acid; Somatostatin receptor; Neuroprotection; Excitotoxicity; Epilepsy (Braun, H. (803) 54)

Kindling; Gliosis; Hippocampus; Hilus; Plasticity; Dentate gyrus (Adams, B. (804) 331)

Presynaptic glutamate receptor; Group II metabotropic glutamate receptor; Glutamate release; Kindling; Epileptogenesis; DCG-IV; Lamotrigine (Attwell, P.J.E. (805) 138)

$GABA_A$ receptor; Allopregnanolone; Pregnancy; $\alpha 4$ Subunit; PMS (Moran, M.H. (807) 84)

Amphetamine; Limbic system; Neurodegeneration; Glutamate; Catecholamine; Basal ganglia (Bowyer, J.F. (809) 77)

Hippocampus; Tolerance; Kainate; Pentobarbital (Najm, I.M. (810) 72)

Kainate; Status epilepticus; Transgenic; In situ nick translation; Apoptosis; Neuronal injury; Heat shock protein; Neuronal stress (Hu, R.Q. (810) 229)

Hippocampus; Long-term potentiation; Plasticity; Cell Adhesion Molecules (Hoffman, K.B. (811) 152)

B6 mice; D2 mice; Epilepsy; Electroconvulsive shock; Genetics; Quantitative trait loci (Ferraro, T.N. (813) 207)

Seizure classification
Kindling; Spontaneous seizure; Epilepsy; Perforant path; Dentate gyrus; Amygdala (Michael, M. (793) 197)

Seizure pattern
Ictal behavior; Interictal behavior; Cortical stimulation; Kindling; Electroconvulsive shock (Della Paschoa, O.E. (814) 199)

Seizures
Cocaine; Dopamine D1 and D2 receptors; β-carboline system; NMDA–Ca ionophore complex (Ushijima, I. (797) 347)

Seizure susceptibility
Rat; Acidosis; Substantia nigra (Velíšek, L. (782) 310)

Kindling; Histamine; Histidine decarboxylase (Toyota, H. (802) 241)

Selective attention
Mismatch negativity; Auditory stream segregation; Event-related potential; Auditory sensory memory (Sussman, E. (789) 130)

Selective breeding
8-OH-DPAT; 5-Hydroxytryptamine$_{1A}$; Serotonin receptor; Hypothermia; Cortex; Autoradiography (Knapp, D.J. (782) 1)

Selectively bred rat lines
Alcohol; Opioid; Enkephalin; Preproenkephalin mRNA; In situ hybridization; Nucleus accumbens (Li, X.-W. (794) 35)

Selective vulnerability
Neurodegeneration; Neurotoxicity mapping; Propidium iodide; Microtubule-associated protein 2; Organotin compounds (Noraberg, J. (783) 305)

Calpain proteolysis; Spectrin; Silver stain; Delayed cell death; Hippocampus; Field potentials; Cytoskeleton (Bartus, R.T. (790) 1)

Self-administration
Bed nucleus of the stria terminalis; Cocaine; D-1 receptor; Dopamine; Extended amygdala; Rat; SCH 23390 (Epping-Jordan, M.P. (784) 105)

Ethanol; Sucrose; Reinforcement; Cerebral metabolism; 2-[^{14}C]deoxyglucose method (Porrino, L.J. (791) 18)

Self-sizing spiral cuff electrode
Visual prosthesis; Retinitis pigmentosa; Optic nerve stimulation (Veraart, C. (813) 181)

Self-stimulation
Microdialysis; Rat; Dopamine; Stimulation-escape; Aversion (Rada, P.V. (782) 228)

Medial prefrontal cortex; Cocaine; Adrenalectomy (Carr, K.D. (787) 321)

Brain stimulation reward; Medial forebrain bundle; Rate–frequency curve shift; Pedunculopontine tegmentum; Lateral dorsal tegmentum (Waraczynski, M. (800) 154)

Dopamine; D1 antagonist; Nucleus accumbens; Prefrontal cortex; Brain-stimulation reward; Rat (Duvauchelle, C.L. (811) 57)

Self-stimulation reward
CA3 neurons of hippocampus; Thorny excrescences; Mossy fibers (Shankaranarayana Rao, B.S. (804) 320)

Self-sustaining status epilepticus
Chronic epilepsy; Electrical stimulation; Hippocampus (Mazarati, A.M. (801) 251)

Antiepileptic drugs; Diazepam; Phenytoin; Refractoriness (Mazarati, A.M. (814) 179)

Semicircular canal
Spatial property; Medial vestibular nucleus; Single unit; Superior vestibular nucleus; VOR (Quinn, K.J. (780) 143)

Semitendinosus
Rectus femoris; Human; Ipsilateral; Contralateral (Misiaszek, J.E. (795) 25)

Senescence-Accelerated Mouse
Amygdala; Electrophysiology; Optical recording; Slice preparation (Nakanishi, H. (812) 142)

Senescence-accelerated mouse SAM
Active avoidance; Brainstem; Magnocellular reticular formation; Passive avoidance; Spongy degeneration (Yagi, H. (791) 90)

Senile plaque
Alzheimer's disease; Neurite outgrowth; Cryostat tissue section (Tolar, M. (787) 49)

FGF-9 immunoreactivity; Fibroblast growth factor; Alzheimer's disease; Dystrophic neurite (Nakamura, S. (814) 222)

Sensitive period
Brain injury; Sensorimotor cortex; Use-dependency; Recovery of function; Neuroplasticity; Rehabilitation; Glutamate (Humm, J.L. (783) 286)

Sensitization
Restraint stress; Amphetamine; Metyrapone; Dopamine (Reid, M.S. (783) 133)

Cocaine; Amphetamine; c-*fos*; Striatum; Development (Snyder-Keller, A. (794) 88)

Amphetamine; Calmodulin; Rat; Environment (Ostrander, M.M. (797) 339)

Social stress; Cocaine; Fos immunohistochemistry; Ventral tegmental area; Dorsal raphe nucleus; Periaqueductal grey area; Locus coeruleus; Locomotion (Nikulina, E.M. (810) 200)

Sensorimotor cortex
Brain injury; Sensitive period; Use-dependency; Recovery of function; Neuroplasticity; Rehabilitation; Glutamate (Humm, J.L. (783) 286)

Experimental epilepsy; Kainic acid; Perirhinal cortex; Secondary generalization (Imamura, S.-i. (800) 323)

Sensorimotor gating
Glycine; Nucleus accumbens; Ventral pallidum; Glutamate; Schizophrenia (Kretschmer, B.D. (798) 204)

Sensorimotor integration
Striatum; Dopamine; MPTP; GM1 (Schneider, J.S. (813) 82)

Sensory–autonomic integration
Parabrachial; Kölliker–Fuse; Solitarius; Trigeminal; Diving response (Dutschmann, M. (809) 221)

Sensory ganglia
Dopamine receptor; Dopamine transporter; Sympathetic ganglia; Alternative splicing; Messenger RNA (Xie, G.-X. (785) 129)

Sensory ganglion
Acetylcholine; Arterial chemoreceptors; Carotid body; Carotid (sinus) nerve; Petrosal ganglion (Alcayaga, J. (786) 47)

Sensory memory
Event-related potential; Mismatch negativity; Auditory; Perception; Frequency; Cortex; Lesion; Hemispace (Alain, C. (812) 23)

Sensory nervous system
Acetylcholinesterase; Butyrylcholinesterase; Dorsal root ganglion; Neural development; Histochemistry; In situ hybridization (Koenigsberger, C. (787) 248)

Sensory neuron
Calcitonin gene-related peptide; Gene expression; α_2-adrenergic receptor; Nerve growth factor (Supowit, S.C. (782) 184)

Pain; Inflammation; Taste; Ion channel; Irritation (Liu, L. (809) 238)

Sensory processing
Taste; Parabrachial nucleus; Brain slice; Intrinsic property (Kobashi, M. (781) 218)

Parabrachial nucleus; Brain slice; Inhibition; Synaptic processing (Kobashi, M. (799) 323)

Ethanol; Somatosensory cortex; Intracellular recording; Pyramidal neuron; Membrane property (Sessler, F.M. (804) 266)

Sensory system
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Septal cholinergic neurons
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Septohippocampal neuron
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Septo-hippocampal pathway
Cerebral ischemia; γ-aminobutyric acid (Gabriel, E.M. (785) 279)

Septum
Protein kinase C (PKC); PKC-α; PKC-βII; Fimbria–fornix lesion; Plasticity (Shimohama, S. (781) 343)

Nitric oxide; Theta rhythm amplitude; ARG; NMMA; Hippocampus; Urethane-anesthetized rat (Monmaur, P. (787) 165)

Rat; Striato-pallidal system; Tyrosine hydroxylase; Calcium binding protein (Seifert, U. (795) 227)

Serotonergic lesion
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Serotonergic system
β-imager; 5-HT_{1B} receptor; 5-HT-moduline; Autoradiography (Cloëz-Tayarani, I. (798) 311)

Serotonin
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Dopamine; Morphine; Cocaine; Microdialysis; Nucleus accumbens (Willins, D.L. (781) 291)

MDMA; Nucleus accumbens; Dopamine; GABA (Obradovic, T. (785) 1)

Pain; Hotplate; Writhing; 5-HT_4; 5-HT_3; Mouse (Espejo, E.F. (788) 20)

6-Hydroxydopamine; Nigral transplant; Striatum; L-DOPA; 5-Hydroxytryptophan; Microdialysis; Rat (Ishida, Y. (788) 207)

Primary afferent depolarization; GABA; Capsaicin; Nociceptive afferent; Spinal dorsal horn (Khasabov, S.G. (789) 339)

8-OH-DPAT; Medial preoptic area; Dopamine; Microdialysis; Male sexual behavior (Lorrain, D.S. (790) 217)

High-pressure neurological syndrome; Accumbens; Dopamine; 5-HT_2 receptor; Voltammetry (Kriem, B. (796) 143)

Lordosis behavior; Female rat; Hormone; 8-OH-DPAT (Jackson, A. (796) 299)

Receptor; 5-HT_{2A}; Spinal cord; DRG; Immunohistochemistry (Maeshima, T. (797) 118)

Somatosensory thalamus; Cocaine; Microdialysis; Sensory system; Norepinephrine (Rutter, J.J. (798) 7)

Parafascicular neuron; Nociceptive discharge; Intrathecal administration; Norepinephrine; Aminophylline; Rat (Yang, S.-w. (798) 320)

Methamphetamine; Glutamate; Transporter; Striatum (Kokoshka, J.M. (799) 78)

Niemann–Pick type C disease; L-DOPA; Glycine; Tyrosine hydroxylase; Cerebellum (Yadid, G. (799) 250)

Fenfluramine; Fluoxetine; TFMPP; 8-OH-DPAT; Food intake (Currie, P.J. (800) 62)

Ibogaine; Noribogaine; 18-Methoxycoronaridine; In vivo microdialysis; Nucleus accumbens; Striatum; Rat (Wei, D. (800) 260)

Risperidone; Striatum; Globus pallidus; Dopamine; GABA (Grimm, J.W. (801) 182)

Neuropeptide Y; DOI; RU 24969, TFMPP, Hypothalamic paraventricular nucleus; Food intake; Energy substrate utilization (Currie, P.J. (803) 212)

Glutamate; Histamine; γ-Aminobutyric acid; REM (Nuñez, A. (804) 144)

Methamphetamine; Dopamine; Neurotoxicity; Hyperthermia; Rat; Tyrosine hydroxylase; Glial fibrillary acidic protein; Western blot (Fukumura, M. (806) 1)

Amphetamine; MDMA; Reserpine; Dopamine; In vivo dialysis; Striatum; Vesicular storage (Sabol, K.E. (806) 69)

Alcohol; Aggression; Lateralization (Wallace Deckel, A. (807) 38)

Absence epilepsy; WAG/RIJ rat; 8-hydrox-2-(di-*n*-propylamin)-tetralin (8-OH-DPAT); Spike-wave discharge; 5-HT_{1A} receptor (Gerber, K. (807) 243)

Suprachiasmatic nucleus; Circadian rhythm; Neuropeptide Y; Cyclic AMP; Brain slice (Prosser, R.A. (808) 31)

Stress; Serotonin metabolism; ACTH; Serotonergic lesion; Neuroendocrine regulation (Jørgensen, H. (811) 10)

Monoamine oxidase; Tyramine; β-Phenylethylamine; Dopamine; Substantia nigra; Dorsal raphe nucleus; Locus ceruleus (Arai, R. (812) 275)

Fenfluramine; Phentermine; Dopamine; Striatum (Balcioglu, A. (813) 67)

Circadian rhythm; Non-photic entrainment (Antle, M.C. (813) 139)

Synaptic density; Plasticity; Dopamine; Receptor; Prefrontal cortex (Sugahara, M. (814) 143)

Monoamine; Noradrenaline; Formalin; Pain; Inflammation; Pain modulation (Omote, K. (814) 194)

Serotonin metabolism
Stress; Serotonin; ACTH; Serotonergic lesion; Neuroendocrine regulation (Jørgensen, H. (811) 10)

Serotonin *N*-acetyltransferase
Melatonin; Circadian rhythm; Development; Egg; Cricket; *Gryllus bimaculatus*; Insect (Itoh, M.T. (781) 91)

Serotonin receptor
8-OH-DPAT; 5-Hydroxytryptamine$_{1A}$; Hypothermia; Selective breeding; Cortex; Autoradiography (Knapp, D.J. (782) 1)

Regulation; Basal ganglia; Rat (Compan, V. (793) 103)

Emission tomography; Aging; Partial volume correction (Meltzer, C.C. (813) 167)

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Serotonin receptor, 5-HT_1 and 5-HT_2 receptor
[^{3}H]5-hydroxytryptamine binding; [^{3}H]spiperone binding; Coated vesicle; Bovine brain (Moroi, K. (794) 291)

Serotonin synthesis rate
MDMA; α-methyl-L-tryptophan; Ecstasy; Neurotoxicity (Mück-Šeler, D. (810) 76)

Serum deprivation
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Sex behavior
Amygdala; Central tegmental field; Early immediate gene; Testosterone (Gréco, B. (781) 15)

Sex-dependent mortality
Middle cerebral artery occlusion; Estrogen; 17β-Estradiol; Ovariectomy; Ischemia (Zhang, Y.-Q. (784) 321)

Sex difference
Testosterone; FSH; Testis; Body weight; Free-running; Diurnal; Rodent (Goel, N. (792) 229)

Hypothalamus; Preoptic area; Rhesus monkey; Cytoarchitecture; Human (Byne, W. (793) 346)

P75 neurotrophin receptor; Nerve growth factor; Basal forebrain; Spatial memory; Choline (Williams, C.L. (794) 225)

Pain modulation; Analgesia; Nucleus raphe magnus; Locomotion; Opioid (Boyer, J.S. (796) 315)

Sex differences
Nicotine; Cocaine; Analgesia; Gender (Craft, R.M. (809) 137)

Reflex ovulation; Olfaction; Pheromones; Copulation; Hypothalamus; GnRH (Gill, C.J. (811) 21)

Sexual behavior
5-HT receptor agonist; Female; Proestrous (Wolf, A. (804) 206)

Non-genomic; Lordosis; GABA; Solicitation (Frye, C.A. (808) 72)

Sexual development
$GABA_A$ receptor; Hypothalamus; In situ hybridization; Immunohistochemistry (Jung, H. (780) 218)

Sexual difference
Calcitonin gene-related peptide; Dorsal root ganglion; Estrogen; Estrogen receptor; Ovariectomy (Yang, Y. (791) 35)

Sexual dimorphism
Meadow vole; Prefrontal cortex; Dendritic arbor; *Microtus pennsylvanicus* (Kavaliers, M. (810) 41)

***S*-flurbiprofen**
Immunoreactive substance P; Intraspinal release; *R*-flurbiprofen; Inflammation; Nonsteroidal anti-inflammatory drug (Schaible, H.-G. (798) 287)

SFO
Fos; Egr-1; Intracerebroventricular renin; Captopril; AT_1 and AT_2 receptors (Xu, Z. (782) 24)

Shal
K^+ currents; Parasympathetic neurons; Development (Dryer, L. (789) 162)

Sheep
PACAP; Prolactin; DOPAC; Microdialysis; TIDA neuron (Anderson, S.T. (790) 343)

Shell
Corticosterone; Mesocorticolimbic dopamine system; Medial prefrontal cortex; Nucleus accumbens; Caudate-putamen; cocaine (Ikemoto, S. (814) 171)

Shell and core of nucleus accumbens
Nucleus accumbens; Efferent projection; Biotinylated dextran amine; Ventral striatum; Autonomic nervous system (Usuda, I. (797) 73)

Shiverer
Myelin basic protein; Transgenic mouse; Gene therapy; Myelinogenesis; Central nervous system (Kimura, M. (785) 245)

Shivering vs. non-shivering thermogenesis
Temperature regulation; Posterior hypothalamic warm and cold responsive neurons; Thermoresponsiveness (Li, Q. (794) 80)

Sholl analysis
Sparse fur; Ornithine carbamoyltransferase deficiency; Golgi Kopsch (Hopkins, K.J. (797) 167)

SH-SY5Y cells
Muscarinic antagonists; Muscarinic receptor subtypes (Magni, P. (798) 75)

SHU9119
Paraventricular nucleus; MT II; MC4-receptor; Food intake (Giraudo, S.Q. (809) 302)

Shuttle box
Quinpirole; c-*fos*; Striatum; Dopamine; D_2 receptor; Caudate-putamen; Immediate-early genes (Struthers, W.M. (785) 347)

Sigma receptors
NMDA receptors; Pyramidal cells; Medial prefrontal cortex (Liang, X. (807) 208)

Sigma$_1$ (σ_1) receptor
Neuroactive neurosteroid; Scopolamine-induced amnesia; Y-maze; Water-maze; Learning and memory; Mouse (Urani, A. (799) 64)

Signaling pathway
Compression; Rat astrocyte RCR-1 cell; Proliferation; Injury of central nervous system; Tyrosine kinase (Oishi, Y. (781) 159)

Signal transduction
Carbon dioxide; Ammonia; pH_i; Acidosis; Alkalosis (Yoshii, K. (791) 257)

Immunohistochemistry; Excitotoxicity; Purkinje cell; Proto-oncogene; Granule cell; Stellate/basket cell; Undercutting the cortex (Chen, S. (795) 87)

cPLA2; Muscarinic receptor; Arachidonic acid; Oligodendrocyte; Glia (Lautens, L.L. (809) 18)

Schwann cell; 8-Bromo cyclic AMP; Mitogen-activated protein kinase (MAPK); S6 kinase (Mutoh, T. (810) 274)

Signal transduction protein
Vestibular compensation; Protein kinase C; Cerebellum; Labyrinthectomy; Purkinje cell (Balaban, C.D. (804) 253)

Silent period
Epilepsy; Hippocampus; Inhibition; Seizure; Temporal lobe (Mangan, P.S. (799) 183)

Silica
Schwann cell; Macrophage; Wallerian degeneration; Cell culture (Kubota, A. (802) 254)

Silver stain
Calpain proteolysis; Spectrin; Selective vulnerability; Delayed cell death; Hippocampus; Field potentials; Cytoskeleton (Bartus, R.T. (790) 1)

Simple reaction time
Parkinson's disease; Reaction time; Choice reaction time; Cerebral evoked potentials; Bradykinesia; Akinesia (Kutukcu, Y. (799) 1)

Single cell recording
Barrel cortex; Peptide; Neuromodulator; Microiontophoresis; Rat (Cahusac, P.M.B. (793) 73)

Single channel
Physostigmine; Neuronal nicotinic acetylcholine receptor; Subtype; Insect; Whole-cell voltage clamp (Van den Beukel, I. (789) 263)

Single-channel activity
FK506; Rapamycin; Ca^{2+}-dependent K^+ channel; Rat cultured hippocampal neuron (Terashima, A. (786) 255)

Single unit
Spatial property; Medial vestibular nucleus; Superior vestibular nucleus; VOR; Semicircular canal (Quinn, K.J. (780) 143)

Hippocampus; Place field; Directional firing; Spatial memory; Polynomial surface; Hierarchical cluster analysis (Martin, P.D. (783) 249)

Dopamine; Ventral tegmental area; Mesencephalon; Reward (Moisan, J. (786) 143)

Single unit recording
Morphine tolerance and dependence; Nucleus paragigantocellularis; Morphine; Naloxone; Opiate withdrawal (Haghparast, A. (814) 71)

Site-directed mutagenesis
Torpedo ACh receptor; Outside-out patch; Protein phosphorylation; Desensitization (Nishizaki, T. (812) 242)

Skewness
Aortic depressor nerve; Barosensitive neuron; Barosensitivity; Coefficient of variation; Firing rate; Neurogenic hypertension; Rostral ventrolateral medulla (Han, Y.M.Y. (813) 262)

SK&F-86466
Hypoxia; Noradrenaline; Respiration; Rat; Pons; Guanabenz; Post-hypoxic frequency decline (Coles, S.K. (794) 267)

Skin
Directional sensibility; Human (Olausson, H. (808) 120)

S6 kinase
Schwann cell; 8-Bromo cyclic AMP; Mitogen-activated protein kinase (MAPK); Signal transduction (Mutoh, T. (810) 274)

Sleep
Amygdala; Electrical stimulation; PGO wave; Rapid-eye-movement sleep (Deboer, T. (793) 305)

Arousal; Hypothalamus; Preoptic area; Electroencephalogram; Sleep deprivation (Szymusiak, R. (803) 178)

Sleep deprivation
Sleep; Arousal; Hypothalamus; Preoptic area; Electroencephalogram (Szymusiak, R. (803) 178)

Sleep regulation
Vigilance state; EEG spectral analysis; Female rat (Schwierin, B. (811) 96)

Sleep–wakefulness cycle
Individual differences; Stress; Corticosterone; Locomotor reactivity to novelty (Bouyer, J.J. (804) 114)

Slice
Long term potentiation; Immediate early gene; Imprinting; Passive avoidance; Learning (Yanagihara, S. (779) 240)

Synaptic transmission; Methyllycaconitine; Nicotinic receptor; Hippocampus (Alkondon, M. (810) 257)

Slice preparation
Senescence-Accelerated Mouse; Amygdala; Electrophysiology; Optical recording (Nakanishi, H. (812) 142)

Slice system
Hypothalamus; Preoptic area; ATP; Tamoxifen; Fluphenazine (Gray, J.M. (798) 223)

Slow excitatory postsynaptic potential (EPSP)
Pain; Windup; Development; *N*-Methyl-D-aspartate (NMDA) receptor (Hamba, M. (785) 66)

Slow h-current (I_h)
Whole-cell patch clamp; Brain slice; Rat olfactory cortex neurone; Development; Hyperpolarization-activated current; Fast inward rectification; Specific I_h blocker: ZD 7288 (Sciancalepore, M. (814) 133)

Small synaptic vesicle
Axonal reticulum; Axonal transport; Sympathetic nerve; Synapsin; Synaptophysin (Quatacker, J. (802) 281)

SNAFL-1
Astrocyte; Intracellular pH; Confocal microscopy; Acidosis; Nigericin (Masuda, A. (807) 70)

SNAP-25
Human influenza virus; Second trimester of pregnancy; Mice; Hippocampus; Schizophrenia; Autism (Fatemi, S.H. (800) 1)

SNARF
Anoxic depolarization; Brain slice; Energy metabolism; Hydrogen ion concentration; Hypoxia; Lactate; Synaptic transmission (Roberts Jr., E.L. (783) 44)

Sniffing
Prelimbic medial prefrontal cortex; Open field; Behavioral sensitization; Locomotion; Cocaine (Tzschentke, T.M. (795) 71)

SNX-111
Nerve injury-induced hyperalgesia; Partial nerve ligation; SNX-230; Nifedipine; Quin 2; Voltage-dependent calcium channel; Nociceptive flexion reflex (White, D.M. (801) 50)

SNX-230
Nerve injury-induced hyperalgesia; Partial nerve ligation; SNX-111; Nifedipine; Quin 2; Voltage-dependent calcium channel; Nociceptive flexion reflex (White, D.M. (801) 50)

Social stress
Sensitization; Cocaine; Fos immunohistochemistry; Ventral tegmental area; Dorsal raphe nucleus; Periaqueductal grey area; Locus coeruleus; Locomotion (Nikulina, E.M. (810) 200)

Sodium
Astrocyte; Cell swelling; Methylmercury; Potassium; Aspartate; Amiloride; In vitro (Aschner, M. (799) 207)

Hypoxia; Calcium; Fura-2; Glutamate; Glutamate transporter; Na^+–Ca^{2+} exchanger (Yamaguchi, S. (813) 351)

Sodium channel augmentation
Inflammation; Pain; Dorsal root ganglion (Gould III, H.J. (802) 69)

Sodium depletion
Furosemide; Angiotensin II; AT-1 and AT-2 receptor subtype; Losartan; PD123319; Aldosterone (Liénard, F. (787) 171)

Sodium nitroprusside
Nitric oxide; Periaqueductal gray; Blood pressure; GABA; Enkephalin; Glutamic acid; Hydroxylamine; TRIM (Hall, C.W. (805) 69)

Soleus
Tirilazad; Cat; Motor nerve terminal; Posttetanic potentiation; Edrophonium; Repetitive discharge (Hall, E.D. (779) 346)

Human; H-reflex; Passive movement; Ankle joint; Homonymous afferent feedback (Voigt, M. (783) 332)

Solicitation
Non-genomic; Lordosis; GABA; Sexual behavior (Frye, C.A. (808) 72)

Solitarius
Parabrachial; Kölliker–Fuse; Trigeminal; Diving response; Sensory–autonomic integration (Dutschmann, M. (809) 221)

Solitary nucleus
Tachykinin NK_1 receptor antagonist; GR205171, Substance P; Vomiting; Retching; Vagus nerve (Fukuda, H. (802) 221)

Soluble guanylyl cyclase
Cyclic-GMP; *Schistocerca gregaria*; Locust; Nitric oxide (Elphick, M.R. (800) 174)

Soluble guanylyl-cyclase
Nitric oxide; NO synthases; Cochlea; Vestibular system; Neurotransmission (Hess, A. (813) 97)

Soluble interleukin-6 receptor
Alzheimer's disease; Cerebrospinal fluid; Interleukin-6; Family history; ELISA (Hampel, H. (780) 356)

Soman
NMDA receptor–ion channel complex; Norepinephrine release; Cortical slice; Voltage-dependent sodium channel; Voltage-dependent calcium channel (Tang, H.-W. (787) 123)

Somatic nerve
B4-HRP; Spinal ganglia; Visceral nerve; Unmyelinated primary afferent; Peripheral nerve ending (Wang, H.F. (811) 34)

Somatosensory
Dorsal column nucleus; Human; Substance P receptor; NK-1 receptor (Schwark, H.D. (786) 259)

Gating; Human; Visual; Auditory (Staines, W.R. (801) 125)

Somatosensory cortex
Magnetoencephalography; Interaction; Muscle contraction (Forss, N. (781) 259)

AMPA; Nucleus basalis magnocellularis; Pirenzepine; Gallamine; Acetylcholine; Rat (Raevsky, V.V. (782) 324)

Locus coeruleus; Modulation; Trigeminal system; Noradrenergic (Waterhouse, B.D. (790) 33)

Laser Doppler flowmetry; Flow metabolic coupling (Detre, J.A. (796) 91)

Head trauma; Catecholamine; Contusion; Cerebral edema (Dunn-Meynell, A.A. (800) 245)

Ethanol; Intracellular recording; Pyramidal neuron; Sensory processing; Membrane property (Sessler, F.M. (804) 266)

Somatosensory evoked field
Hemispheric lesion; Plastic reorganization; Neuromagnetism; Hand cortical representation; Magnetic resonance imaging (Rossini, P.M. (782) 153)

Somatosensory-evoked magnetic field (SEF)
Somesthetic information processing; Somatosensory-evoked potential (SEP); Stimulus rate; Tangential component; Radial component (Nagamine, T. (791) 200)

Somatosensory-evoked potential (SEP)
Somesthetic information processing; Somatosensory-evoked magnetic field (SEF); Stimulus rate; Tangential component; Radial component (Nagamine, T. (791) 200)

Somatosensory response
Cortical feedback; Receptive field; Dorsal column; Representational map (Malmierca, E. (810) 172)

Somatosensory thalamus
Cocaine; Microdialysis; Sensory system; Norepinephrine; Serotonin (Rutter, J.J. (798) 7)

Somatostatin
Hippocampus; Long-term potentiation; Cognitive enhancer; Acetylcholine; Mossy fiber-CA3 pathway; FK960 (Matsuoka, N. (794) 248)

Immunotoxin lesion; Neuropeptide Y; Cholinergic basal forebrain; Cortex; Rat; Alzheimer's disease (Zhang, Z.-J. (800) 198)

Calcitonin gene-related peptide; Jugular ganglion; NADPH-diaphorase; Nodose ganglion; Petrosal ganglion; Substance P; Tyrosine hydroxylase (Ichikawa, H. (800) 312)

Temporal lobe epilepsy; Intracerebral injection; NADPH diaphorase (Miettinen, R. (813) 9)

Somatostatin receptor
Cortistatin; Kainic acid; Neuroprotection; Excitotoxicity; Seizure; Epilepsy (Braun, H. (803) 54)

Somatotopic organization
Trigeminal system; Nitric oxide; Nerve injury; Trans-synaptic regulation; Transganglionic transport; Horseradish peroxidase (Takemura, M. (781) 78)

Somatotroph
CGRP; GH secretagogue; Pituitary adenoma; GH_3 cell (Nakamura, Y. (807) 203)

Somatovisceral convergence
Thalamus; Nociception; Visceral sensation; DNIC; Descending and ascending inhibition (Brüggemann, J. (787) 269)

Somesthetic information processing
Somatosensory-evoked magnetic field (SEF); Somatosensory-evoked potential (SEP); Stimulus rate; Tangential component; Radial component (Nagamine, T. (791) 200)

Songbird
Cell morphology; Dendrite; Spine (Benton, S. (799) 138)

Sound localization
Superior colliculus; Inferior colliculus; Ageing; Auditory (Ingham, N.J. (788) 60)

Auditory-visual integration; Optic tectum; Superior colliculus; Pigeon (Lewald, J. (790) 339)

Spaced training
Massed training; Associative learning; Classical conditioning; Appetitive stimulus; Aversive stimulus; Gastropod (Kojima, S. (808) 113)

Sparse fur
Ornithine carbamoyltransferase deficiency; Golgi Kopsch; Sholl analysis (Hopkins, K.J. (797) 167)

Ornithine carbamoyltransferase deficiency; Quinolinic acid; Neurotoxicity; NMDA receptor (Hopkins, K.J. (797) 209)

Spatial
Head direction cell; Laterodorsal thalamus; Postsubiculum; Navigation (Golob, E.J. (780) 9)

Radial-arm maze; BXSB; C57BL/6; NZB; Inbred mice; Working memory; Reference memory; Learning; Memory load; Win-shift (Hyde, L.A. (785) 236)

Spatial alternation
Nicotinamide adenine dinucleotide phosphate-diaphorase (NADPH-d); Neuronal nitric oxide synthase (nNOS); Dentate gyrus; Frontal cortex; Rat (Zhang, S. (801) 101)

Spatial attention (latent learning)
Nociceptin receptor; Knockout mice; Water-finding test; Dopamine content (Mamiya, T. (783) 236)

Spatial learning
Spermine; Neurotoxicity; Retention; [^{3}H]PK11195 binding; Diazepam (Conway, E.L. (800) 10)

Spatial memory
NMDA receptor; AP5; Hippocampus; Radial-arm maze; Open-field; Rat (Kawabe, K. (781) 300)

Hippocampus; Single unit; Place field; Directional firing; Polynomial surface; Hierarchical cluster analysis (Martin, P.D. (783) 249)

GABA-A receptor; Attention; Benzodiazepine; Learning and microinjection (Mao, J.-B. (784) 139)

ApoE-deficient mouse; Corticosterone; mRNA expression; Restraint stress (Zhou, Y. (788) 151)

P75 neurotrophin receptor; Nerve growth factor; Basal forebrain; Choline; Sex difference (Williams, C.L. (794) 225)

192-IgG-saporin; Immunotoxin; Cingulate cortex; Hippocampus; Radial-arm maze; Working memory (Dougherty, K.D. (810) 59)

NMDA receptor; Strychnine-insensitive glycine site; Hippocampus; D-Cycloserine; MK-801; Radial-arm maze; Rat (Kawabe, K. (814) 226)

Spatial property
Medial vestibular nucleus; Single unit; Superior vestibular nucleus; VOR; Semicircular canal (Quinn, K.J. (780) 143)

Spatial synchronization
Spontaneous epileptiform burst; Long-term potentiation; CA3 hippocampal slice; Chaotic mossy fiber stimulation; Cross-correlation function (Ishizuka, S. (790) 108)

Specific cell marker
Calcium-binding protein; Neurocalcin; Olfactory bulb (Briñón, J.G. (795) 204)

Specific I_h blocker: ZD 7288
Whole-cell patch clamp; Brain slice; Rat olfactory cortex neurone; Development; Hyperpolarization-activated current; Slow h-current (I_h); Fast inward rectification (Sciancalepore, M. (814) 133)

Spectral analysis
Hippocampal EEG; Intracavernous pressure; Penile erection; Papaverine; Negative feedback inhibition; Rat (Chang, A.Y.W. (788) 160)

Spectrin
Calpain proteolysis; Silver stain; Selective vulnerability; Delayed cell death; Hippocampus; Field potentials; Cytoskeleton (Bartus, R.T. (790) 1)

Speech
Auditory; Language; Magnetoencephalography; Lateralization; Temporal processing; Cognitive neuroscience (Gage, N. (814) 236)

Speed of locomotion
Hippocampal theta rhythm; Hypothalamic locomotor region; Rat (Sławińska, U. (796) 327)

Spermidine
Polyamine site; NMDA receptor; Muscarinic receptor; Metabotropic glutamate receptor; Hippocampus; Working memory (Kishi, A. (793) 311)

Spermine
Neurotoxicity; Spatial learning; Retention; [^{3}H]PK11195 binding; Diazepam (Conway, E.L. (800) 10)

Sphenopalatine ganglia
NADPH diaphorase; Nitric oxide synthase; Choline acetyltransferase; Vasoactive intestinal polypeptide; Co-localization; Middle cerebral artery; Pig (Yu, J.-G. (801) 78)

Spike frequency adaptation
Reticulospinal neuron; Command system; Locomotion; Delayed excitation; Bursting (Rouse, D.T. (779) 301)

Spike-wave discharge
Absence epilepsy; WAG/RIJ rat; Serotonin; 8-hydrox-2-(di-*n*-propylamin)-tetralin (8-OH-DPAT); 5-HT_{1A} receptor (Gerber, K. (807) 243)

Spinal cord
Choline acetyltransferase; Immunohistochemistry; Cranial nerve motor nucleus; Monkey; Cholinoceptivity (Ichikawa, T. (779) 96)

Stretch; Muscle spindle; Presynaptic inhibition; Human (Cheng, J. (779) 280)

Anoxia; Demyelination; Dorsal column; Spinal cord injury (Imaizumi, T. (779) 292)

Pain; Descending inhibition; Fos; Dorsolateral funiculus; Ventrolateral funilucus (Wei, F. (782) 136)

Amyotrophic lateral sclerosis (ALS); Glial fibrillary acidic protein (GFAP); GFAP immunohistochemistry; GFAP amino acid sequence; Motor neuron degeneration (*Mnd*) mutant mouse; Polyacrylamide gel electrophoresis (PAGE) (Fujita, K. (785) 31)

Neuroanatomy; Autonomic; Parasympathetic; Pontine micturition center (Nuding, S.C. (785) 185)

Substance P; NK1 receptor; Ageing; Autoradiography (Maguire, C.M. (786) 263)

Neurotrophin; Blood–brain barrier; Brain (Pan, W. (788) 87)

Cat; Muscle afferent; Hindlimb; Motoneuron; Tail (Wada, N. (788) 327)

Idazoxan; Nociception; Opioids; Prazosin; WB4101 (Fang, F. (790) 14)

Cholecystokinin; Microdialysis; CI988; Axotomy; Rat (Gustafsson, H. (790) 141)

Regeneration; Ascending tract; Goldfish (Hanna, G.F.B. (791) 235)

Aging; Opioid receptor (Hoskins, D.L. (791) 299)

Nitric oxide; NO-releasing compound; Hyperalgesia; Nerve injury; Cyclic GMP (Inoue, T. (792) 263)

Adenovirus; Gene therapy; β-Galactosidase; Motor neurons; Subarachnoid; MUG; Central nervous system (Mannes, A.J. (793) 1)

Ventral horn; Motor function; Chronic microdialysis; Histology (Gerin, C. (794) 169)

$GABA_A$ receptor; Bicuculline; Plasma extravasation; Evans Blue; Formalin-induced inflammation; Kaolin/carrageenan-induced inflammation (John, J.M. (794) 320)

μ-opioid receptor; Substance P; Calcitonin gene-related peptide; Dorsal root ganglion; Trigeminal ganglion; Nociception; Rat (Li, J.-L. (794) 347)

N-methyl-D-aspartate receptor; Immediate early gene; Immunocytochemistry; Pain; Rat (Zhang, R.-X. (795) 282)

Genitourinary; Parasympathetic; c-*fos*; Immediate early gene; Bladder (Grill, W.M. (796) 150)

Serotonin; Receptor; $5\text{-}HT_{2A}$; DRG; Immunohistochemistry (Maeshima, T. (797) 118)

Morphine; Diazepam; Opioid; Benzodiazepine; μ-Opioid receptor; Constitutive receptor; Tolerance; Brain region; Peripheral tissue; CNS (Tejwani, G.A. (797) 305)

Dorsal root ganglion; Trigeminal ganglion; Pain; Immunohistochemistry (Takiguchi-Hayashi, K. (801) 9)

Paraventricular nucleus; Rostral ventrolateral medulla; Collateral (Shafton, A.D. (801) 239)

Lateral hypothalamic area; Zona incerta; Medial septal nucleus; Nucleus of diagonal band; True-blue; Diamidino yellow; Retrograde tracer; Anterograde tracer; Melanin-concentrating hormone; Neuropeptides (Bittencourt, J.C. (805) 1)

Lower urinary tract; Immediate early gene; Nociception; Capsaicin; K^+-channel-opener (Yu, Y. (807) 11)

Cat; Exercise pressor reflex; Excitatory amino acid; Muscle afferent neuron; Blood pressure (Wilson, L.B. (807) 222)

Adenosine; Allodynia; Rat; Receptors; Strychnine (Khandwala, H. (808) 106)

Dynorphin; mRNA; Halothane; Ketamine; Nitrous oxide (Tanimoto, M. (811) 88)

Anesthetic; Volatile; Enflurane; LT neuron; WDR neuron; Receptive field (Yanagidani, T. (812) 301)

Antinociception; c-Fos; Morphine tolerance; Carrageenin; Dose–response (Le Guen, S. (813) 128)

Spinal cord contusion
Demyelination; Myelination index; Schwann cell; Neural plasticity; Paraplegia (Salgado-Ceballos, H. (782) 126)

Spinal cord injury
Anoxia; Demyelination; Dorsal column; Spinal cord (Imaizumi, T. (779) 292)

Fibroblast growth factor; NBQX (Follesa, P. (782) 306)

CNP; MBP; GFAP (Morin-Richaud, C. (783) 85)

Endothelin; Axonal degeneration; SB209670 (Uesugi, M. (786) 235)

c-Fos immunohistochemistry; Frontal cortex; Motor cortex; Axotomy; Plasticity (Ikeda, S. (792) 164)

Neutrophil elastase; Motor disturbance; Activated leukocyte; Myeloperoxidase; Rat (Taoka, Y. (799) 264)

Spinal cord ischemia
Motor neuron death; Fas antigen; DNA fragmentation (Sakurai, M. (797) 23)

Spinal cord slice
Whole-cell voltage clamp; Glutamatergic EPSC; Presynaptic receptor; α_{2A}-adrenoceptor; Sympathetic preganglionic neuron (Miyazaki, T. (790) 170)

Spinal dorsal horn
Primary afferent; Inflammation; Pain; Image analysis (Polgár, E. (786) 248)

Primary afferent depolarization; Serotonin (5-HT); GABA; Capsaicin; Nociceptive afferent (Khasabov, S.G. (789) 339)

Spinal ganglia
B4-HRP; Somatic nerve; Visceral nerve; Unmyelinated primary afferent; Peripheral nerve ending (Wang, H.F. (811) 34)

Spinalization
Chronic neuropathy; Carrageenan-induced inflammation; Hyperalgesia; Allodynia; Nocifensive reflex (Kauppila, T. (797) 234)

Spinal lemniscus
Excitatory amino acid; Glycine; GABA; Locomotion (Vinay, L. (808) 279)

Spinal motoneuron
Amyotrophic lateral sclerosis; GDNF receptor; RET; Immunocytochemistry (Duberley, R.M. (789) 351)

Spinal release
Calcitonin gene-related peptide; Opioid receptor; Tonic inhibitory control; Polyarthritis; Intrathecal perfusion (Ballet, S. (796) 198)

Spinal rhythmic activity
In vitro study; Excitatory amino acid; Inhibitory amino acid (Bonnot, A. (793) 136)

Spinal trigeminal nucleus
Lesion; Quinolinic acid; Orofacial; Nociception; Rat (Luccarini, P. (803) 79)

Spinal trigeminal tract nucleus
c-*fos*; Subnucleus oralis; Intraoral nerve; Cutaneous nerve (Sugimoto, T. (783) 158)

c-*fos*; *zif*268; Subnucleus oralis; Tooth pulp (Sugimoto, T. (794) 353)

Spine
Songbird; Cell morphology; Dendrite (Benton, S. (799) 138)

Spino-bulbo-spinal
C-fibre; Flexor reflex; Rostral ventromedial medulla (RVM); Wind-up; Inhibitory feed-back mechanism (Gozariu, M. (792) 168)

Spleen
Freund's adjuvant arthritis; Circadian rhythms; Lymph nodes; Ornithine decarboxylase; Tyrosine hydroxylase; Acetylcholine synthesis (Cardinali, D.P. (789) 283)

Spongy degeneration
Active avoidance; Brainstem; Magnocellular reticular formation; Passive avoidance; Senescence-accelerated mouse SAM (Yagi, H. (791) 90)

Spontaneous activity
Dorsal cochlear nucleus; Endogenous acetylcholine; Diisopropyl fluorophosphate; Fusiform cell; Cartwheel cell (Chen, K. (783) 219)

Spontaneous alternation
Glucose; Memory; Galanin; K-ATP; Rat (Stefani, M.R. (813) 50)

Spontaneous augmented breath
Inspiratory neuron; Excitatory amino acid; NMDA; AP-5; Non-NMDA; CNQX; Iontophoresis (Takeda, M. (781) 194)

Spontaneous bursting
Hippocampus; Veratridine; Valproic acid; Phenobarbital; Epilepsy; Anticonvulsants (Otoom, S. (789) 150)

Spontaneous diazepam withdrawal
Dizocilpine; Ifenprodil; Long-term diazepam treatment; Drug-admixed food (DAF) method; Fischer 344 rat (Tsuda, M. (790) 82)

Spontaneous epileptiform burst
Long-term potentiation; CA3 hippocampal slice; Chaotic mossy fiber stimulation; Spatial synchronization; Cross-correlation function (Ishizuka, S. (790) 108)

Spontaneous expression
Suprachiasmatic nucleus; Dorsomedial part; Circadian rhythm; Immediate-early gene; c-Fos (Sumová, A. (801) 254)

Spontaneous locomotor activity
Prepulse inhibition; (+)-HA-966; Phencyclidine; Apomorphine; Haloperidol (Furuya, Y. (781) 227)

Spontaneously epileptic rat (SER)
Topiramate; Antiepileptic drug; Glutamatergic transmission; Hippocampal CA3 neuron; Abnormal excitation (Hanaya, R. (789) 274)

Spontaneously hypertensive
Genetic variability; Tolerance; Morphine; Withdrawal; Sprague–Dawley; Wistar–Kyoto (Hoffmann, O. (806) 232)

Spontaneous pain
NMDA; Glutamate antagonist; Nociception (Davidson, E.M. (785) 136)

Mechanical allodynia; Mechanical hyperalgesia; NMDA; Non-NMDA; Substance P (Carlton, S.M. (790) 160)

Spontaneous seizure
Kindling; Seizure classification; Epilepsy; Perforant path; Dentate gyrus; Amygdala (Michael, M. (793) 197)

Sprague–Dawley
Genetic variability; Tolerance; Morphine; Withdrawal; Wistar–Kyoto; Spontaneously hypertensive (Hoffmann, O. (806) 232)

Spreading depression
Cerebral ischemia; Temporary focal ischemia; Ischemic tolerance (Yanamoto, H. (784) 239)

Focal ischemia; Middle cerebral artery; Penumbra zone; Ischemic depolarization; Cerebrolysin; MK-801; Rat (Koroleva, V.I. (786) 104)

Ischemia; Oxidative damage; Mitochondria; Anoxic depolarization (Pérez-Pinzón, M.A. (786) 165)

Ischemia; BDNF; bFGF; Astrocyte; Preconditioning (Matsushima, K. (807) 47)

Hypoxia; Anoxia; Input resistance; Glutamate pharmacology; Intrinsic optical signal (Müller, M. (812) 1)

Sprouting
Brain injury; Glia/neuronal interaction; Swelling; Synaptic plasticity (D'Ambrosio, R. (786) 64)

Plasticity; c-*fos*; Pain (Shortland, P. (810) 288)

S100B; Neurotropic factor; Axon growth; Astrogliosis; Glial-released protein; Hippocampus (McAdory, B.S. (813) 211)

SR141716A
Δ^9-Tetrahydrocannabinol; CB_1 receptor; Hippocampus; Microdialysis; Acetylcholine (Carta, G. (809) 1)

Formalin; Pain; Hyperalgesia; Cannabinoid (Strangman, N.M. (813) 323)

1*S*,3*R*-1-Aminocyclopentate-1,3-dicarboxylic acid
Metabotropic glutamate receptors; Long-term potentiation; Dentate gyrus; (*RS*)-2-Chloro-5-hydroxyphenylglycine; (2*S*,3*S*,4*S*)-α-(Carboxy-cyclopropyl)-glycine; L-2-Amino-4-phosphono butyric acid (O'Leary, D.M. (809) 91)

Stable isotope
Acetyl-L-carnitine; Brain; Glucose; Glycogen; ^{13}C NMR spectroscopy (Aureli, T. (796) 75)

Staging
Autoradiography; Inositol 1,4,5-trisphosphate; Inositol 1,3,4,5-tetrakisphosphate; Protein kinase C; Phorbol 12,13-dibutyrate; Human brain; Alzheimer's disease; Neurofibrillary tangles; Hippocampus (Kurumatani, T. (796) 209)

Startle
Corticotropin releasing hormone; Nucleus reticularis pontis caudalis; Fear (Birnbaum, S.G. (782) 318)

Fear; Anxiety; Conditioned inhibition; Medial geniculate (Heldt, S.A. (813) 274)

STAT
Sympathetic ganglion; Axotomy; Intracellular signaling; LIF; NGF (Rajan, P. (802) 198)

Static
Muscle spindle; Fusimotor; Afferent; Summation; Dynamic (Carr, R.W. (800) 97)

Statistical comparison
Cortical motor area; Thalamocortical neuron; Corticocortical neuron; Diamidino yellow; Fast blue (Wang, Y. (781) 137)

Status epilepticus
Seizure; Kainate; Transgenic; In situ nick translation; Apoptosis; Neuronal injury; Heat shock protein; Neuronal stress (Hu, R.Q. (810) 229)

Stellate / basket cell
Immunohistochemistry; Excitotoxicity; Purkinje cell; Signal transduction; Proto-oncogene; Granule cell; Undercutting the cortex (Chen, S. (795) 87)

Stellate ganglion
Autonomic nervous system; Cardiovascular regulation; Emotion; Defense reaction; Pain; Periaqueductal gray matter; Precommissural nucleus; Pseudorabies virus (Jansen, A.S.P. (784) 329)

Stellation
Adenosine; Astrocyte; Adenosine receptor; Tyrosine phosphatase; Culture (Abe, K. (804) 63)

Stem cell
Clonal cell line; Neoplasm (Minakawa, M. (813) 172)

Stereology
Corticosterone; Hippocampal formation; Neuronal degeneration; Neuronal reorganization (Sousa, N. (794) 199)

Alzheimer disease; Neurofibrillary pathology; Neurofibrillary staging; Hippocampus (Bobinski, M. (799) 156)

Alzheimer disease; Hippocampus; Atrophy; Neuronal loss; Clinicopathological correlations (Bobinski, M. (805) 267)

GABA; Immunohistochemistry; Hippocampus; Mouse (Jinno, S. (814) 55)

Stereoselective transport
Blood-brain barrier; Histidine; Rat (Yamakami, J. (812) 105)

Stereotypy
Psychomotor stimulant; Osmotic pump; Animal model; Addiction (Dalia, A.D. (797) 29)

Steroid
Pregnenolone sulfate; AMPA receptor; NMDA receptor; Kainate receptor; Neurosteroid (Yaghoubi, N. (803) 153)

Steroid 5α-reductase
Rat C_6 glioma cell; Serum deprivation; Immunoreactivity; Subcellular distribution (Tsuruo, Y. (801) 130)

Steroid hormone
Neurosteroid; Aging; S100; Immunocytochemistry (Legrand, A. (802) 125)

Steroids
Pregnenolone sulfate; Excitotoxicity; NMDA receptor (Weaver Jr., C.E. (803) 129)

Stimulation-escape
Microdialysis; Rat; Dopamine; Self-stimulation; Aversion (Rada, P.V. (782) 228)

Stimulus rate
Somesthetic information processing; Somatosensory-evoked magnetic field (SEF); Somatosensory-evoked potential (SEP); Tangential component; Radial component (Nagamine, T. (791) 200)

Stomatogastric ganglion
Central pattern generator; Neuromodulation; Dopamine (Ayali, A. (794) 155)

Streptozotocin-induced diabetes
Optic myelinated fiber; Nonenzymatic glycation; Aminoguanidine; Morphometry (Ino-ue, M. (800) 319)

Stress
Dopamine; Prefrontal cortex; VTA; NMDA; Microdialysis (Enrico, P. (779) 205)

Microdialysis; Oxytocin; Vasopressin; Hypothalamus (Nishioka, T. (781) 57)

Fear conditioning; Fos production; Hippocampus; Amygdala; Parietal cortex (Milanovic, S. (784) 37)

RU-486; Opioid; Proenkephalin; CRH; mRNA; Hypothalamus (García-García, L. (786) 215)

Amygdala; Central amygdala nucleus; Corticotropin-releasing hormone; In situ hybridization; mRNA; Neuropeptide; Paraventricular nucleus (Hsu, D.T. (788) 305)

Synaptic plasticity; Memory; Glucocorticoid; Hippocampus; Long-term potentiation; Corticosterone (Bramham, C.R. (789) 245)

c-*fos*; Immediate early gene; Raphe nuclei; Supramammillary region; Hypothalamus; Hippocampus; Arousal; Double labeling (Wirtshafter, D. (789) 331)

Analgesia; Periaqueductal gray; Nociception; Tail flick; Opioid; Learning; Pavlovian conditioning (Bellgowan, P.S.F. (791) 83)

Elevated plus-maze; Metyrapone; Corticosterone; Chloride ion flux; GABA; Anxiety (Calvo, N. (800) 227)

Dopamine; Nicotine; Rat brain; Prefrontal cortex; Schizophrenia (George, T.P. (801) 36)

Individual differences; Sleep–wakefulness cycle; Corticosterone; Locomotor reactivity to novelty (Bouyer, J.J. (804) 114)

Pig; Glucocorticoid receptor; Limbic area (Kanitz, E. (804) 311)

Impoverished environment; Hippocampus; Microdialysis; Circadian rhythm; Behavior (Mitsushima, D. (805) 207)

Vasopressin; V1 receptor; T cell; NK cytotoxicity; Corticotropin-releasing hormone (Shibasaki, T. (808) 84)

β-adrenergic receptor; HPLC; In vivo microdialysis; Memory modulation (Quirarte, G.L. (808) 134)

Glucocorticoid; Striatum; gp120; HIV; AIDS-related dementia; Calcium; Neuron death (Iyer, A.M. (808) 305)

Corticosterone; Dendritic atrophy; Golgi impregnation (Magariños, A.M. (809) 314)

α-MSH; Fever; Corticosterone; Food intake; Water intake (Milligan, E.D. (810) 48)

Serotonin; Serotonin metabolism; ACTH; Serotonergic lesion; Neuroendocrine regulation (Jørgensen, H. (811) 10)

Neurotrophin; Glucocorticoid; Corticosteroid (Schaaf, M.J.M. (813) 112)

Stress experience
Footshocks; Behaviour; Rats; Open field; Naloxone; Emotional stimulus (Van den Berg, C.L. (799) 6)

Stressor controllability
Learned helplessness; Inescapable shock; 5-HT; 5-HIAA; In vivo microdialysis; Hippocampus; Periaqueductal gray (Amat, J. (797) 12)

Learned helplessness; Inescapable shock; 5-HT; 5-HIAA; In vivo microdialysis; Amygdala (Amat, J. (812) 113)

Stress proteins
c-*fos*; hsp70; Brain slices; Apoptosis; NMDA; Translation; Transcription; Neonate; Immediate early genes (Hasegawa, K. (785) 262)

Stress response
Glucocorticoid receptors; Photoperiod; Hippocampus; Cortisol; Corticosterone; Hamster (Ronchi, E. (780) 348)

Limbic seizure; Lithium–pilocarpine; Fos protein; HSP72; Neuronal damage; 2-Deoxyglucose (Motte, J. (793) 61)

Stretch
Muscle spindle; Presynaptic inhibition; Spinal cord; Human (Cheng, J. (779) 280)

Striatonigral degeneration
5-HT_{1B} receptor; Huntington's disease; Parkinson's disease; Progressive supranuclear palsy; [^{3}H]sumatriptan (Castro, M.E. (790) 323)

Striatonigral pathway
Neural transplants; Substantia nigra; Parkinson's disease; Striatum; Innervation (Sortwell, C.E. (791) 117)

Striato-pallidal system
Rat; Septum; Tyrosine hydroxylase; Calcium binding protein (Seifert, U. (795) 227)

Striatum
Acetylcholine; Calcium; Dissociated neurons; Dopamine; GabaA; Muscimol; Vesamicol (Login, I.S. (779) 33)

Parkinson's disease; 6-Hydroxydopamine; Fixed-ratio discrimination training; Replacement therapy; Accumbens; Dopamine; Apomorphine; Amphetamine (Van Keuren, K.R. (780) 56)

Lithium; Methamphetamine; Reverse tolerance; Ambulatory; Activity; c-Fos protein; Geniculate nucleus (Namima, M. (782) 83)

Amphetamine; c-Fos; FRA; Immunohistochemistry; Behavioral sensitization; Dopamine (Turgeon, S.M. (782) 329)

Lesch–Nyhan syndrome; 6-Hydroxydopamine; Fixed ratio discrimination training; Dopamine; Apomorphine (Stodgell, C.J. (783) 10)

Quinpirole; c-*fos*; Shuttle box; Dopamine; D_2 receptor; Caudate-putamen; Immediate-early genes (Struthers, W.M. (785) 347)

Basal ganglia; Globus Pallidus; Quinolinic acid; Lesion; Water maze; Huntington's disease; Rat (Joel, D. (787) 143)

Nucleus accumbens; Paraventricular nucleus of the thalamus; Prefrontal cortex; Rat; Thalamus (Bubser, M. (787) 304)

6-Hydroxydopamine; Nigral transplant; L-DOPA; 5-Hydroxytryptophan; Serotonin; Microdialysis; Rat (Ishida, Y. (788) 207)

Frontal cortex; AMPA; Kainate; NMDA; Basal ganglia; Fos; Attention (Schuller, J.J. (788) 315)

Nociceptin; Orphanin FQ; Microdialysis; Dopamine; Naloxone (Konya, H. (788) 341)

6-hydroxydopamine; Microdialysis; Nigrostriatal lesion; Opioid; Substantia nigra (Kimmel, H.L. (789) 171)

MPTP; Methamphetamine; Neurotoxicity; Core temperature; Dopamine; Mice (Moy, L.Y. (790) 264)

Neural transplants; Substantia nigra; Parkinson's disease; Striatonigral pathway; Innervation (Sortwell, C.E. (791) 117)

Receptor autoradiography; In situ hybridisation; Xanthine; Cerebellum; Dopamine (Fredholm, B.B. (791) 177)

Nicotinic acetylcholine receptor; Aging; Ischemia; Polymerase chain reaction (Tohgi, H. (791) 186)

Cyclic GMP; Nitric oxide synthase; Perinatal asphyxia; Hypothermia; Rat pup (Loidl, C.F. (791) 303)

D2 receptor-deficient mice; Synaptosomes; Dopamine autoreceptors; Dopamine release (L'hirondel, M. (792) 253)

Mouse; Met-enkephalin; γ-Amino butyric acid; Acetylcholine; Substance-P; Immunodeficiency (Kustova, Y. (793) 119)

NMDA receptor/glycine site; 5,7-DCKA; Muscle rigidity (Lorenc-Koci, E. (793) 315)

Cocaine; Amphetamine; c-*fos*; Development; Sensitization (Snyder-Keller, A. (794) 88)

$GABA_A$-BDZ receptor; EtOH sedation; Locomotor activity; Benzodiazepine inverse agonist; *Xenopus oocyte*; $GABA_A$ subunit (June, H.L. (794) 103)

Acetylcholine; AF64A; Choline acetyltransferase; Cholinergic neuron; CPP binding; NMDA receptor (Ikarashi, Y. (795) 215)

Adenosine A_{2A}-receptor; Dopamine D_2-receptor; Aging (Popoli, P. (795) 297)

NMDA receptor; Tardive dyskinesia; Haloperidol; Nucleus accumbens; Vacuous chewing movements' syndrome; Receptor autoradiography (Hamid, E.H. (796) 291)

Morphine; Naloxone; Dopamine metabolism; Glutamate; Ascorbic acid (Enrico, P. (797) 94)

Dopamine; 6-Hydroxydopamine-lesion; NMDA; DOPAC (Andrés, M.E. (797) 255)

Methamphetamine; Serotonin; Glutamate; Transporter (Kokoshka, J.M. (799) 78)

Nicotine chronic; Nicotine withdrawal; Hippocampus; Mecamylamine (Houdi, A.A. (799) 257)

Ibogaine; Noribogaine; 18-Methoxycoronaridine; Serotonin; In vivo microdialysis; Nucleus accumbens; Rat (Wei, D. (800) 260)

Risperidone; Globus pallidus; Dopamine; Serotonin; GABA (Grimm, J.W. (801) 182)

Glutaric acid; Organic acidemia; Neurotoxicity; GABA; Glutamate; Seizure; Turning behavior (Lima, T.T.F. (802) 55)

Inbred rodents; Genetics; Amphetamine; Novelty (Brodkin, E.S. (805) 55)

Amphetamine; MDMA; Reserpine; Dopamine; Serotonin; In vivo dialysis; Vesicular storage (Sabol, K.E. (806) 69)

Transcription factor; Activator protein-1; Phosphorylation of CREB; Ischemia; Thalamus (Kuramoto, N. (806) 152)

6-OHDA lesion; Substantia nigra; L-DOPA; Lidocaine; Turning behavior (Mura, A. (808) 48)

Bupropion; Potassium; Haloperidol; Microdialysis; Dopamine; DOPAC; Time course; Axotomy; Rat (Holson, R.R. (808) 182)

Glucocorticoid; Stress; gp120; HIV; AIDS-related dementia; Calcium; Neuron death (Iyer, A.M. (808) 305)

6-Hydroxydopamine; Methamphetamine; Fos; Substantia nigra pars reticulata; Transplant (Ishida, Y. (809) 107)

Glutamate; Hydroxyl radical; Excitotoxicity; Microdialysis; Rat (Lancelot, E. (809) 294)

Amphetamine; Cocaine; Dopamine; Haloperidol (White, I.M. (810) 146)

Antioxidants; Ascorbate; Dopamine; Glutamate (Kiyatkin, E.A. (812) 14)

Hypertensive rat; Timm staining; Neocortex; Thalamus (Sørensen, J.C. (812) 265)

Fenfluramine; Phentermine; Serotonin; Dopamine (Balcioglu, A. (813) 67)

Dopamine; Sensorimotor integration; MPTP; GM1 (Schneider, J.S. (813) 82)

Dopamine; Methamphetamine; Reactive oxygen species; Superoxide dismutase; Lipid peroxidation (Açikgöz, O. (813) 200)

Stroke
CA1; CA3; Eliprodil; Hippocampus; Hypoxia; Ischemia; Neuronal death; Neuroprotection; *N*-Methyl-D-aspartate; NR2B (Reyes, M. (782) 212)

Cerebral ischemia; Glutamate; MK-801; NMDA (Werth, J.L. (782) 248)

Rat; Brain; Basilar artery; Angiotensin II; Endothelin-1; Arginine vasopressin; Thromboxane (Mayhan, W.G. (783) 326)

MRI; Diffusion; Hyperglycemia; ADC; MCAO (Huang, N.C. (788) 137)

Testosterone; Estradiol; Brain ischemia; Male rat; Middle cerebral artery occlusion (Hawk, T. (796) 296)

Nitric oxide; Inducible nitric oxide synthase; Rat; Middle cerebral artery (Zhang, F. (802) 104)

Motor cortex; Magnetic stimulation; Plasticity (Traversa, R. (803) 1)

Ischemia; Excitotoxicity; Neurodegeneration; Glutaminase; Delayed neuronal damage (Newcomb, R. (813) 103)

Strychnine
Ketamine; Bicuculline; Convergent neuron; Dorsal horn; Noxious immersion; Paw; Rat (McGaraughty, S. (784) 63)

Glycine current; Freshly isolated neuron; Ion channel; Patch clamp; Picrotoxin (Ye, J.H. (796) 53)

Adenosine; Allodynia; Rat; Receptors; Spinal cord (Khandwala, H. (808) 106)

Strychnine-insensitive glycine site
NMDA receptor; Hippocampus; D-Cycloserine; MK-801; Spatial memory; Radial-arm maze; Rat (Kawabe, K. (814) 226)

Strychnine-sensitive glycine receptor
Taurine; Sacral dorsal commissural nucleus; Acutely dissociated neurons; Nystatin perforated patch clamp; Chloride current (Wang, D.-S. (792) 41)

Subarachnoid
Adenovirus; Gene therapy; β-Galactosidase; Spinal cord; Motor neurons; MUG; Central nervous system (Mannes, A.J. (793) 1)

Subarachnoid hemorrhage
Cerebral blood flow; Autoregulation; Vasospasm; Rat (Yamamoto, S. (782) 194)

Oxyhemoglobin; Cyclooxygenase; Indomethacin; Acetylcholine; Histamine; Cyclooxygenase metabolite; Basilar artery (Tran Dinh, Y.-R. (790) 91)

Subcellular distribution
Rat C_6 glioma cell; Serum deprivation; Steroid 5α-reductase; Immunoreactivity (Tsuruo, Y. (801) 130)

Subcerebellar nuclei
Hearing; Auditory function; Primary sensory pathway; Learning and memory: systems and functions (Woody, C.D. (789) 74)

Subcutaneous bee venom injection
Persistent pain; Central change; c-Fos expression; Dorsal horn; Immunohistochemistry; Morphine; Rat (Luo, C. (806) 175)

Subfornical organ
Central regulation of salivation; Salivary gland; Viral tracing; Organum vasculosum of the lamina terminalis; Median preoptic nucleus; Preoptic area; Insular cortex (Hübschle, T. (806) 219)

Subiculum
Topiramate; Na^+-electrogenesis; GABA; Rat (Kawasaki, H. (807) 125)

Hippocampus; Extracellular matrix; Plasticity; Gene expression; In situ hybridization (Hoffman, K.B. (812) 209)

Subjective night
Circadian clock; Locomotor activity rhythm; Phase shifts; Fos protein; Circadian times (Chambille, I. (808) 250)

Subnucleus interpolaris
Acute plasticity; Receptive field; Trigeminal; Infraorbital nerve; Extracellular recording (Klein, B.G. (779) 136)

Subnucleus oralis
c-*fos*; Spinal trigeminal tract nucleus; Intraoral nerve; Cutaneous nerve (Sugimoto, T. (783) 158)

c-*fos*; *zif*268; Spinal trigeminal tract nucleus; Tooth pulp (Sugimoto, T. (794) 353)

Substance P
Pain; Hyperalgesia; Mouse; Intrathecal; Substance P fragment (Goettl, V.M. (780) 80)

Electron microscopy; Estrogen receptor; Immunocytochemistry; Medial preoptic nucleus; Periventricular preoptic nucleus (Kalló, I. (781) 335)

NK1 receptor; Ageing; Spinal cord; Autoradiography (Maguire, C.M. (786) 263)

Guinea pig; Tooth pulp; Jaw-opening reflex; NK1 antagonist; Immunocytochemistry; Primary sensory neuron (Alia, S. (787) 99)

Mechanical allodynia; Mechanical hyperalgesia; Spontaneous pain; NMDA; Non-NMDA (Carlton, S.M. (790) 160)

μ-Opioid receptor; Calcitonin gene-related peptide; Nitric oxide synthase; Nodose ganglion; Petrosal ganglion; Jugular ganglion; Coexistence; Rat (Ding, Y.-Q. (792) 149)

Ventral Pallidum; Amygdala; Nucleus accumbens; Opioid; DAMGO; Tachykinin; Excitatory amino acid; Glutamate; Neuromodulation (Mitrovic, I. (792) 193)

Mouse; Met-enkephalin; γ-Amino butyric acid; Acetylcholine; Striatum; Immunodeficiency (Kustova, Y. (793) 119)

Neurokinin 1 receptor; Autoradiography; Human visual cortex (Kus, L. (794) 309)

μ-opioid receptor; Calcitonin gene-related peptide; Dorsal root ganglion; Trigeminal ganglion; Spinal cord; Nociception; Rat (Li, J.-L. (794) 347)

Calcitonin gene-related peptide; NK 1 receptor; Confocal microscopy; Three dimensional reconstruction (Ladic, L.A. (795) 312)

mPFC lesions; In situ hybridization histochemistry; Basal ganglia; D2; D1; Enkephalin; GAD65 (Baca, S.M. (797) 55)

Calcitonin gene-related peptide; Jugular ganglion; NADPH-diaphorase; Nodose ganglion; Petrosal ganglion; Somatostatin; Tyrosine hydroxylase (Ichikawa, H. (800) 312)

Aldose reductase; Inflammation; Nerve growth factor; Neurotrophin-3; Oxidative stress; *trkA* (Fernyhough, P. (802) 247)

Biocytin; Brainstem slice; Dorsal motor nucleus of the vagus; Glutamate; NMDA; Whole-cell recording (Liu, X. (804) 95)

CGRP; TuJ1-immunoreactive fiber; Chicken; Carotid body; Vagus nerve (Kameda, Y. (807) 246)

Substance P fragment
Pain; Hyperalgesia; Mouse; Intrathecal; Substance P (Goettl, V.M. (780) 80)

Substance P receptor
Dorsal column nucleus; Human; Somatosensory; NK-1 receptor (Schwark, H.D. (786) 259)

Substantia gelatinosa
Iontophoresis; Alpha agonist; Antinociception; Neuron modality (Jones, S.L. (798) 55)

Substantia innominata
Autoradiography; Carbachol; Cholinergic system; Galanin; Cerebral blood flow (Barbelivien, A. (789) 92)

Substantia nigra
Rat; Acidosis; Seizure susceptibility (Velíšek, L. (782) 310)

Neurotrophic factor; Parkinson's disease; Immunocytochemistry; GDNF (Lapchak, P.A. (789) 9)

6-hydroxydopamine; Microdialysis; Nigrostriatal lesion; Opioid; Striatum (Kimmel, H.L. (789) 171)

Ca^{2+}/calmodulin-dependent protein kinase II; Red nucleus; Cochlear nucleus; Pontine nucleus; Inferior olivary nucleus (Ochiishi, T. (790) 129)

Neural transplants; Parkinson's disease; Striatonigral pathway; Striatum; Innervation (Sortwell, C.E. (791) 117)

Immunocytochemistry; Parkinson's disease; Growth factor; Tyrosine kinase; Dopaminergic (Walker, D.G. (792) 207)

DA-5HT-interaction; Microdialysis; D_1-receptor; D_2-receptor (Thorré, K. (796) 107)

DA–5-HT interaction; Microdialysis; 5-HT_1 receptor; 5-HT_2 receptor; 5-HT_4 receptor (Thorré, K. (796) 117)

Human; Ventral tegmental area; Aromatic L-amino acid decarboxylase; Tyrosine hydroxylase; Dopamine; Immunohistochemistry (Ikemoto, K. (805) 255)

6-OHDA lesion; Striatum; L-DOPA; Lidocaine; Turning behavior (Mura, A. (808) 48)

Monoamine oxidase; Tyramine; Serotonin; β-Phenylethylamine; Dopamine; Dorsal raphe nucleus; Locus ceruleus (Arai, R. (812) 275)

6-OHDA; Hypoxia; Hydroxyl radical; Oxidative stress; Parkinson's disease; Cytochrome P450 (Dajas-Bailador, F.A. (813) 18)

Substantia nigra pars compacta
Deprenyl; Dopamine; GM1 ganglioside; MPTP (Rothblat, D.S. (779) 226)

Substantia nigra pars reticulata
Monkey; Intracerebral injections; Bicuculline; Muscimol; Globus pallidus internalis (Burbaud, P. (780) 102)

Prefrontal cortex; Motor cortex; Caudate nucleus; Putamen; Subthalamic nucleus; Thalamus; Monkey (Kitano, H. (784) 228)

Epilepsy; Amygdala kindled seizure; Basal ganglia; Subthalamic nucleus (Deransart, C. (807) 78)

6-Hydroxydopamine; Methamphetamine; Fos; Striatum; Transplant (Ishida, Y. (809) 107)

Substantia nigra reticulata
Transneuronal degeneration; Basal ganglia; Excitotoxicity; Programmed cell death (DeGiorgio, L.A. (795) 1)

Subthalamic nucleus
Globus pallidus; Haloperidol; Circling; MK-801 (Miwa, H. (781) 268)

Substantia nigra pars reticulata; Prefrontal cortex; Motor cortex; Caudate nucleus; Putamen; Thalamus; Monkey (Kitano, H. (784) 228)

Epilepsy; Amygdala kindled seizure; Basal ganglia; Substantia nigra pars reticulata (Deransart, C. (807) 78)

Dopamine; Globus pallidus; Parkinson's disease (Olds, M.E. (812) 50)

Subtractive hybridization
Vasopressin; Down Syndrome; Alzheimer's Disease (Labudova, O. (806) 55)

Subtype
Physostigmine; Neuronal nicotinic acetylcholine receptor; Insect; Whole-cell voltage clamp; Single channel (Van den Beukel, I. (789) 263)

Nicotinic acetylcholine receptor; Human brain; Regional distribution; [^{3}H]epibatidine; [^{3}H]nicotine; Aging (Marutle, A. (801) 143)

Subunit
Propofol; $GABA_A$; Receptor isoform; *Xenopus* oocyte (Lam, D.W. (784) 179)

NMDA receptor; mRNA; Hippocampus; Development; Lead (Guilarte, T.R. (790) 98)

α4 Subunit
Seizure; $GABA_A$ receptor; Allopregnanolone; Pregnancy; PMS (Moran, M.H. (807) 84)

Allopregnanolone; GABA receptor; Antisense; Rat; PMS (Moran, M.H. (807) 91)

Succinylcholine
Dopamine neuron; Depolarization block; Chronic haloperidol; D-tubocurarine; Gallamine; Chloral hydrate (Melis, M. (783) 127)

Suckling
Agonistic behavior; Female sexual behavior; Lactation; Lordosis; Maternal behavior; Mesencephalon (Lonstein, J.S. (804) 21)

Lactation; cFos; NMDA receptor; Hippocampus (Grove, K.L. (814) 157)

Suckling stimulation
Parturition; Lactation; Maternal behavior; Fos (Lin, S.-H. (787) 226)

Sucrose
Ethanol; Self-administration; Reinforcement; Cerebral metabolism; 2-[^{14}C]deoxyglucose method (Porrino, L.J. (791) 18)

Sulfated steroids
$GABA_A$ receptor; 3α-hydroxy-5α-pregnan-20-one sulfate; Pregnenolone sulfate; Chloride ionophore; Neurosteroid (El-Etr, M. (790) 334)

Sulfonylurea
Glucose-responsive; Neuropeptide Y; Dopamine; Norepinephrine; GABA; Ventromedial nucleus; Paraventricular nucleus; Arcuate nucleus (Dunn-Meynell, A.A. (814) 41)

Sulfur-containing amino acid
Neonate; Hypoxia–ischemia; Cysteine; Neurotoxicity; Excitatory amino acid (Puka-Sundvall, M. (797) 328)

Summation
Muscle spindle; Fusimotor; Afferent; Dynamic; Static (Carr, R.W. (800) 97)

Superior cervical ganglia
Nerve growth factor; Cisplatin; Vincristine; Taxol; Rat (Hayakawa, K. (794) 313)

Superior cervical ganglion
Cochlea; Norepinephrine; Dopamine; HPLC; Rat (Gil-Loyzaga, P. (779) 53)

Forskolin; Arginine vasopressin; Imidazole; Papaverine; Adenylate cyclase inhibitor; Phosphodiesterase activator; Phosphodiesterase inhibitor (Hogan, Y.H. (787) 242)

Superior colliculus
Genetically epilepsy-prone rat; Noradrenergic transmission; α_1 agonist; α_1 antagonist; α_2 antagonist; Norepinephrine uptake blocker (Yan, Q.-S. (780) 199)

Brain slice; Cerebellum; Hippocampus; Anoxia; Adenosine; Inosine; Hypoxanthine; ATP (Yamada, T. (787) 220)

Inferior colliculus; Ageing; Auditory; Sound localization (Ingham, N.J. (788) 60)

Sound localization; Auditory-visual integration; Optic tectum; Pigeon (Lewald, J. (790) 339)

Tectum; Tectoreticular; Geniculate; Reticular formation; Lamprey (Zompa, I.C. (802) 27)

Parvicellular reticular formation; Cervical spinal cord; Axon collateral; Rat (Yasui, Y. (804) 149)

Tectoreticular pathway; Reticular formation; Lamprey (Zompa, I.C. (804) 238)

Superior laryngeal nerve
Vomiting; Swallowing; Upper airway; Larynx; Pharynx; Glossopharyngeal nerve; Hypoglossal nerve (Umezaki, T. (781) 25)

Superior temporal sulcus
Macaque monkey; Anterograde and retrograde tracing; Visual cortex; Inferior parietal lobule (Maioli, M.G. (789) 118)

Superior vestibular nucleus
Spatial property; Medial vestibular nucleus; Single unit; VOR; Semicircular canal (Quinn, K.J. (780) 143)

Supernumerary
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Superoxide
Microglia; Propentofylline; Dibutyryl cAMP; Cytokines; Nitric oxide (Si, Q. (812) 97)

Superoxide dismutase
Cell culture; Cerebral endothelium; Ischemia–reperfusion; Oxygen free radical; Oxypurinol (Beetsch, J.W. (786) 89)

Excitotoxicity; Oxidative stress; Glutamate toxicity (Schwartz, P.J. (789) 32)

Glucocorticoid; Catalase; Glutathione peroxidase; Kainic acid; Hippocampus; Cortex; Liver (McIntosh, L.J. (791) 209)

Glucocorticoid; Catalase; Glutathione peroxidase; Kainic acid; Hippocampus (McIntosh, L.J. (791) 215)

Dopamine; Methamphetamine; Reactive oxygen species; Lipid peroxidation; Striatum (Açikgöz, O. (813) 200)

Mitochondrium; Cortical neuron; Glutamate; Glutamate receptor activation; Neurotoxicity (Li, Y. (814) 164)

Superparamagnetic iron oxide
Hyperglycemia; Cerebral ischemia; Reperfusion; Nitric oxide; NOS inhibitor; Hydroxyl radical; Glutamate; Magnetic resonance imaging (Wei, J. (791) 146)

Supplementary eye field
Motor system and sensorimotor integration; Oculomotor system; Saccadic eye movement; Craniocentric representation; Rhesus monkey (Tehovnik, E.J. (795) 287)

Supplementary motor area
Corticostriatal input; Primary motor cortex; Putamen; Motor control; Monkey (Takada, M. (791) 335)

Suppression
Epileptiform activity; Low Ca^{2+}; Applied current; Hippocampus; In vitro (Warren, R.J. (806) 186)

Suprachiasmatic
Circadian; Entrainment; Muscarinic; Rhythm; Hypothalamus; Cerebral cortex; Receptor (Bina, K.G. (797) 143)

Suprachiasmatic nucleus
Long-term potentiation; *N*-Methyl-D-aspartate receptor; NMDA receptor; Synaptic potential (Nisikawa, Y. (782) 303)

Histamine; Circadian; Entrainment; Phase-shift; Dimaprit; Light; Syrian hamster (Scott, G. (783) 1)

5-HT_{1B} receptor; Up-regulation; Reinnervation; Graft; Quantitative autoradiography; Rat (Manrique, C. (788) 332)

Immediate–early gene; *Arvicanthis niloticus*; Diurnal; Fos; Rhythm (Katona, C. (791) 27)

Circadian rhythm; Nitric oxide synthase; Glutamate; Biological clock (Ferreyra, G.A. (797) 190)

Circadian rhythm; Intergeniculate leaflet; Phase resetting; Tachykinin; NK_1 receptor (Challet, E. (800) 32)

Arg–vasopressin; Corticosterone; Circadian rhythm; Locomotor activity (Isobe, Y. (800) 78)

Melatonin; Arginine–vasopressin; Circadian rhythm (Watanabe, K. (801) 216)

Circadian rhythm; Ventromedial hypothalamus; Gold thioglucose; Food restriction (Challet, E. (801) 244)

Dorsomedial part; Circadian rhythm; Immediate-early gene; c-Fos; Spontaneous expression (Sumová, A. (801) 254)

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Circadian rhythms; γ-aminobutyric acid; GABA; Baclofen; Rat; Brain-slice (Biggs, K.R. (807) 250)

Circadian rhythm; Serotonin; Neuropeptide Y; Cyclic AMP; Brain slice (Prosser, R.A. (808) 31)

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Supramammillary region
c-*fos*; Immediate early gene; Raphe nuclei; Hypothalamus; Hippocampus; Stress; Arousal; Double labeling (Wirtshafter, D. (789) 331)

Supraoptic neuron
Noradrenaline; IPSC; α_2-adrenoceptor (Wang, Y.-F. (807) 61)

$GABA_B$ receptor; Baclofen; 2OH-saclofen; Extracellular recording (Ibrahim, N. (813) 88)

Circadian rhythm; Adenylyl cyclase; Cyclic AMP; In situ hybridization histochemistry (Cagampang, F.R.A. (810) 279)

Pituitary adenylate cyclase-activating polypeptide receptor; PACAP; PAC_1; Supraoptic nuclei; Circadian rhythm; In situ hybridization histochemistry (Cagampang, F.R.A. (813) 218)

Supraoptic nucleus
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Fos; Hypovolemia; In situ hybridization; NADPH diaphorase; Nitric oxide synthase; Paraventricular nucleus; Polyethylene glycol (Ueta, Y. (790) 25)

Vasopressin; Posterior pituitary; Microdensitometry (Perryman, W.C. (792) 340)

Pituitary adenylate cyclase-activating polypeptide receptor; PACAP; PAC_1; Suprachiasmatic nuclei; Circadian rhythm; In situ hybridization histochemistry (Cagampang, F.R.A. (813) 218)

Supraspinal
Visceral; Analgesia; Opiate (Yang, S.-w. (808) 101)

Sural nerve
Human gait; Cutaneous reflexes; Cortical facilitation; Magnetic stimulation; Tibialis anterior; Biceps femoris (Pijnappels, M. (787) 149)

Surface potential
Ca^{2+} mobilization; Voltage-dependent Ca^{2+} channel; Whole-cell voltage-clamp (Ohta, T. (814) 99)

Surrogate data
Temporal lobe epilepsy; Epileptogenesis; Epileptogenic focus; Nonlinear dynamics; Nonlinear association analysis (Le Van Quyen, M. (792) 24)

Swallowing
Vomiting; Upper airway; Larynx; Pharynx; Superior laryngeal nerve; Glossopharyngeal nerve; Hypoglossal nerve (Umezaki, T. (781) 25)

Swelling
Brain injury; Glia/neuronal interaction; Synaptic plasticity; Sprouting (D'Ambrosio, R. (786) 64)

Swimming stress
Microdialysis; Hypothalamus; Noradrenaline; Acetylcholine; Hyperglycemia (Gotoh, M. (780) 74)

Sympathetic
Nerve growth factor; Micturition; Autonomic; Bladder smooth muscle; Hypertension (Spitsbergen, J.M. (790) 151)

LTP; Ganglion; Adenosine; Receptor; Transport inhibitor (Hogan, Y.H. (807) 19)

Sympathetic ganglia
Dopamine receptor; Dopamine transporter; Sensory ganglia; Alternative splicing; Messenger RNA (Xie, G.-X. (785) 129)

Sympathetic ganglion
Axotomy; Intracellular signaling; LIF; STAT; NGF (Rajan, P. (802) 198)

Sympathetic nerve
Axonal reticulum; Axonal transport; Small synaptic vesicle; Synapsin; Synaptophysin (Quatacker, J. (802) 281)

Adrenal nerve activity; Periodontal mechanoreceptor; Muscle spindle; Rat (Ikeda, K. (802) 289)

Sympathetic nerve activity
NOS; PVN; Heart failure (Zhang, K. (786) 219)

Sympathetic nerve discharge
Baroreceptor reflex; Cardiac-related rhythm; Cat; Forced oscillation (Zhou, S.-Y. (780) 155)

Sympathetic nervous system
Rostral ventrolateral medulla; Reticulospinal neuron; Intrareticular circuit; Cardiovascular control; Anterograde/retrograde axonal tracer (Granata, A.R. (781) 329)

Parathyroid hormone-related protein; Monoclonal antibody; Blood pressure; Central nervous system (Nagao, S. (785) 75)

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Calorie restriction; Aortic constriction; Hypothalamus (VanNess, J.M. (792) 237)

RVLM; Catecholamine; Pacemaker; Adrenoceptor (Piguet, P. (796) 1)

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Sympathetic preganglionic neuron
Whole-cell voltage clamp; Spinal cord slice; Glutamatergic EPSC; Presynaptic receptor; α_{2A}-adrenoceptor (Miyazaki, T. (790) 170)

Sympathetic stimulation
Cerebral blood flow; Cerebrovascular conductance; Adrenergic activity; Norepinephrine (Diéguez, G. (813) 381)

Sympathoadrenomedullary
Area postrema; Hypothalamic-pituitary-adrenal axis; Glucoprivic feeding; 2-deoxy-D-glucose; Corticosterone (Edmonds, B.K. (801) 21)

Sympathoexcitatory neuron
Acetylcholine; Parabrachial nucleus; Rostral ventrolateral medulla; Pressor response; Scopolamine (Kubo, T. (789) 23)

Synapse
Kainic acid; Glutamic acid; Receptor; Mossy fiber; Hippocampus (Yamamoto, C. (783) 227)

Baroreceptor; Carotid sinus nerve; Chemoreceptor; Histochemistry; Immunocytochemistry; Transganglionic transport; Ultrastructure (Massari, V.J. (785) 329)

Integrin; Dendrite; Glia; Brain; Distribution (Nishimura, S.L. (791) 271)

Laminin; Cerebellar culture; Granuloprival culture; Purkinje cell; Dendritic spine; Dendrite; Astrocyte; Neurite promoting factor; Development; Regeneration (Seil, F.J. (795) 112)

Mitochondria; Neurofibrillary tangles; Neuritic plaque; Mitochondrial DNA; Neuronal activity; Oxidative damage; Mutation (Chandrasekaran, K. (796) 13)

Catecholamine; Heart; Histochemistry; Immunocytochemistry; Intrinsic cardiac ganglion; Transganglionic transport; Ultrastructure; Vagus nerve (Massari, V.J. (802) 205)

Cocaine; MDMA; Methamphetamine; Depression; High-affinity uptake; Voltammetry; Electron microscopy; Immunocytochemistry; Autoradiography; Citalopram; Paroxetine (Zhou, F.C. (805) 241)

Synapses
Hippocampus; Brain slice; AMPA receptor; NMDA receptor; Coefficient of variation (Niu, Y.-P. (800) 253)

Synapsin
Axonal reticulum; Axonal transport; Sympathetic nerve; Small synaptic vesicle; Synaptophysin (Quatacker, J. (802) 281)

Synapsin I
Long-term potentiation; Dentate gyrus; Hippocampus; mRNA (Morimoto, K. (783) 57)

Synapsin I phosphorylation
Microsphere embolism; Noradrenaline release; Microdialysis; Synaptosomes; Cerebral cortex; Ischemia (Hayashi, H. (783) 241)

Synaptic density
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Synaptic morphology
LTP; Hippocampus; Synaptic plasticity (Weeks, A.C.W. (798) 211)

Synaptic neurotransmission
Manganese; Amygdala; Olfactory system (Takeda, A. (811) 147)

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Astrocyte; S100β; Neurotrophic factor; NAN-190; Hippocampal formation; Electron microscopy (Wilson, C.C. (782) 235)

Long-term potentiation; Concussion; Hippocampus (Sick, T.J. (785) 287)

Brain injury; Glia/neuronal interaction; Swelling; Sprouting (D'Ambrosio, R. (786) 64)

Stress; Memory; Glucocorticoid; Hippocampus; Long-term potentiation; Corticosterone (Bramham, C.R. (789) 245)

Cone pedicles; Horizontal cells; Cytochalasin D; Nucleolus-like body; Teleosts retina; Light- and dark-adaptation; Cytoskeleton (De Juan, J. (792) 173)

LTP; Hippocampus; Synaptic morphology (Weeks, A.C.W. (798) 211)

Cyclothiazide; Excised patch; CA1; Pyramidal neuron; Theta burst; Long-term potentiation, LTP (Arai, A. (799) 235)

Synaptic potential
Suprachiasmatic nucleus; Long-term potentiation; *N*-Methyl-D-aspartate receptor; NMDA receptor (Nisikawa, Y. (782) 303)

Synaptic processing
Parabrachial nucleus; Brain slice; Sensory processing; Inhibition (Kobashi, M. (799) 323)

Synaptic reorganization
Kindling; Mossy fiber sprouting; Amygdala; Dentate gyrus; Hippocampus; Seizure; Temporal lobe epilepsy (Armitage, L.L. (781) 37)

Glutamate receptor; Epilepsy; Hippocampal sclerosis; Mossy fiber sprouting; Human hippocampus (Ying, Z. (798) 239)

Synaptic transmission
Anoxic depolarization; Brain slice; Energy metabolism; Hydrogen ion concentration; Hypoxia; Lactate; SNARF (Roberts Jr., E.L. (783) 44)

Hippocampal neuron; Brain-derived neurotrophic factor; NMDA receptor; Non-NMDA receptor; Excitatory postsynaptic current (Song, D.-K. (799) 176)

Methyllycaconitine; Nicotinic receptor; Hippocampus; Slice (Alkondon, M. (810) 257)

Synaptophysin
Axonal reticulum; Axonal transport; Sympathetic nerve; Small synaptic vesicle; Synapsin (Quatacker, J. (802) 281)

GAP-43; Hippocampus; Aging; Physical training; Mouse (Chen, Y.C. (806) 238)

Synaptosome
Preoptic area; Hypothalamus; Frontal cortex; Brain slices; NMDA (Fiber, J.M. (790) 329)

Alzheimer's disease; Caspase; Dendritic spine; Mitochondrial transmembrane potential; Oxidative stress; Phosphatidylserine (Mattson, M.P. (807) 167)

Cerebral cortex; Ischemia; Microsphere embolism; Na^+/K^+-ATPase; Noradrenaline uptake (Hayashi, H. (808) 190)

Synaptosomes
Microsphere embolism; Noradrenaline release; Microdialysis; Synapsin I phosphorylation; Cerebral cortex; Ischemia (Hayashi, H. (783) 241)

D2 receptor-deficient mice; Striatum; Dopamine autoreceptors; Dopamine release (L'hirondel, M. (792) 253)

Synaptotagmin II
Botulinum type-A toxin; Neuromuscular junction; Motor nerve sprouting; Exocytosis; α-Latrotoxin; La^{3+} (Angaut-Petit, D. (797) 357)

Synchronization
Frequency potentiation; Non-NMDA type glutamate receptors; $GABA_B$ receptors; Disinhibition; CA3; El mouse (Fueta, Y. (792) 79)

Synchronized bursting
Functional synapse; Neocortical neuron (Nakanishi, K. (795) 137)

Synergy
Morphine; β-Endorphin; Pain; Analgesia; Nociception; Amygdala; Periaqueductal gray (Pavlovic, Z.W. (779) 158)

Reaching; Arm–trunk coordination; Redundancy problem; Vision; Vector coding of motion (Pigeon, P. (802) 274)

Synuclein
Ischemia; NACP; NAC; Presynaptic protein; Hippocampus (Ishimaru, H. (788) 311)

Lewy body; NACP; Parkinson's disease; Filament aggregation; Neuronal degeneration (Arima, K. (808) 93)

Syrian hamster
Suprachiasmatic nucleus; Histamine; Circadian; Entrainment; Phase-shift; Dimaprit; Light (Scott, G. (783) 1)

Circadian rhythm; Nonphotic zeitgeber; Wheel running; Metergoline (Mistlberger, R.E. (786) 31)

Lordosis response; Photoperiod; Neural estrogen receptor; Neural progestin receptor; Medial preoptic area; Ventromedial hypothalamus (Mangels, R.A. (796) 63)

Neuropeptide Y; Intergeniculate leaflet; In situ hybridization; Photoperiod (Jacob, N. (813) 160)

T

Tachycardia
Bradycardia; Chemoreceptor projection site; Depressor response; Pressor response (Dhruva, A. (801) 88)

Tachykinin
Ventral Pallidum; Amygdala; Nucleus accumbens; Opioid; DAMGO; Substance P; Excitatory amino acid; Glutamate; Neuromodulation (Mitrovic, I. (792) 193)

Circadian rhythm; Suprachiasmatic nucleus; Intergeniculate leaflet; Phase resetting; NK_1 receptor (Challet, E. (800) 32)

Tachykinin NK_1 receptor antagonist
GR205171, Substance P; Vomiting; Retching; Solitary nucleus; Vagus nerve (Fukuda, H. (802) 221)

Tachyphylaxis
Pain; Desensitization; Taste; Pungent (Liu, L. (809) 246)

Tactile allodynia
Demyelination; Intraepidermal innervation; Medial plantar nerve; Pressure neuropathy; Renaut body; Tactile hyperesthesia; Von Frey filament; Wallerian degeneration (Mizisin, A.P. (788) 13)

Tactile hyperesthesia
Demyelination; Intraepidermal innervation; Medial plantar nerve; Pressure neuropathy; Renaut body; Tactile allodynia; Von Frey filament; Wallerian degeneration (Mizisin, A.P. (788) 13)

Tactile perception
Allodynia; Capsaicin; Hyperalgesia; Inflammation; Pain; Touch; Vibration (Kauppila, T. (797) 361)

Tail
Cat; Muscle afferent; Hindlimb; Motoneuron; Spinal cord (Wada, N. (788) 327)

Tail flick
Antinociception; Pain; Opioid; Amygdala; Periaqueductal gray; Rostral medulla; Heart rate; Rat; Anesthesia (Helmstetter, F.J. (779) 104)

Analgesia; Periaqueductal gray; Nociception; Stress; Opioid; Learning; Pavlovian conditioning (Bellgowan, P.S.F. (791) 83)

Tail pinch
Insular cortex; Taste; Visceral; Pharyngolarynx (Hanamori, T. (785) 97)

Tamoxifen
Ischemia; Anion channel; Chloride channel; Volume regulation; Cerebroprotection (Phillis, J.W. (780) 352)

Hypothalamus; Preoptic area; Slice system; ATP; Fluphenazine (Gray, J.M. (798) 223)

Tangential component
Somesthetic information processing; Somatosensory-evoked magnetic field (SEF); Somatosensory-evoked potential (SEP); Stimulus rate; Radial component (Nagamine, T. (791) 200)

Tangle
Amyloid; Neurodegeneration; Astrocyte; Membrane protein; In situ hybridization; Immunohistochemistry (Takami, K. (802) 89)

Tanycyte
Kainic acid; Astrocyte; In situ hybridization; Immunocytochemistry; c-*fos* (Eyigor, O. (814) 231)

Tardive dyskinesia
NMDA receptor; Haloperidol; Striatum; Nucleus accumbens; Vacuous chewing movements' syndrome; Receptor autoradiography (Hamid, E.H. (796) 291)

Taste
Parabrachial nucleus; Brain slice; Sensory processing; Intrinsic property (Kobashi, M. (781) 218)

Insular cortex; Visceral; Tail pinch; Pharyngolarynx (Hanamori, T. (785) 97)

Trigeminal; Electrophysiology; Common chemical sense (Pittman, D.W. (790) 224)

Pain; Inflammation; Sensory neuron; Ion channel; Irritation (Liu, L. (809) 238)

Pain; Desensitization; Pungent; Tachyphylaxis (Liu, L. (809) 246)

Pons; Neuroanatomy (Karimnamazi, H. (813) 283)

Tau
Microtubule; Protein kinase A; Lithium; Osmotic stress; Okadaic acid (Xie, H.-q. (798) 173)

Dog; Aging; Amyloid; Phosphorylation; Neuron; Oligodendrocyte; Plaque (Wegiel, J. (802) 259)

Tauopathy
Pick's disease; Hypothalamus; Lateral tuberal nucleus; Tuberomamillary nucleus; Neuronal cytoskeleton; Tau-protein (Braak, H. (802) 119)

Tau-protein
Pick's disease; Hypothalamus; Lateral tuberal nucleus; Tuberomamillary nucleus; Neuronal cytoskeleton; Tauopathy (Braak, H. (802) 119)

Tau protein
CaM kinase II; Hen; Diisopropyl phosphorofluoridate; Phosphorylation; Organophosphorus-induced delayed neurotoxicity (Gupta, R.P. (813) 32)

Taurine
Cerebral ischemia; Protein kinase C; Glutamate; Aspartate; GABA (Nakane, H. (782) 290)

Sacral dorsal commissural nucleus; Acutely dissociated neurons; Nystatin perforated patch clamp; Chloride current; Strychnine-sensitive glycine receptor (Wang, D.-S. (792) 41)

Brain; Rat; Hydrocephalus; HPLC; Dopamine; Cerebrospinal fluid shunt (Del Bigio, M.R. (798) 119)

Astrocyte; Rat; Cell swelling; Methylmercury; Myoinositol; Amiloride; In vitro (Aschner, M. (811) 133)

Taurine release
Hippocampal slice; Ischemia; Excitotoxicity; Release mechanism (Saransaari, P. (807) 118)

Taxol
Nerve growth factor; Cisplatin; Vincristine; Superior cervical ganglia; Rat (Hayakawa, K. (794) 313)

TBPS
RO19-4603; Alcohol; Operant responding; Alcohol-preferring (P) rat; Benzodiazepine antagonist (June, H.L. (784) 256)

T cell
Vasopressin; V1 receptor; NK cytotoxicity; Corticotropin-releasing hormone; Stress (Shibasaki, T. (808) 84)

TEA
4-AP; $[Ca^{2+}]_i$; Glomus cell; K^+–O_2 current; Low $[Ca^{2+}]_o$ plus high $[Mg^{2+}]_o$; Membrane potential; Neurosecretion (Lahiri, S. (794) 162)

Tectoreticular
Tectum; Superior colliculus; Geniculate; Reticular formation; Lamprey (Zompa, I.C. (802) 27)

Tectoreticular pathway
Superior colliculus; Reticular formation; Lamprey (Zompa, I.C. (804) 238)

Tecto-rotundal
Visual projection; Thalamo-Wulst; Axon collateral; Double labeling; Fluorescent tracer; Chicken (Deng, C. (794) 281)

Tectum
Glutamate; Parvalbumin; Immunohistochemistry; Birds; Nucleus rotundus; Nucleus triangularis; Ectostriatum; Heterogeneity; Dorso–ventral gradient (Theiss, C. (785) 114)

Superior colliculus; Tectoreticular; Geniculate; Reticular formation; Lamprey (Zompa, I.C. (802) 27)

Telemetry
Brain injury; Neonatal cerebral hypoxia–ischemia; Rat; Cortical EEG; Locomotor activity (Antier, D. (807) 29)

Teleost
Pineal; Melatonin; Arylalkylamine *N*-acetyltransferase; Protein synthesis; Circadian oscillator (Falcón, J. (797) 109)

Amacrine cell; Horizontal cell; Müller glia; Immunohistochemistry (Ekström, P. (812) 179)

Teleosts retina
Cone pedicles; Horizontal cells; Synaptic plasticity; Cytochalasin D; Nucleolus-like body; Light- and dark-adaptation; Cytoskeleton (De Juan, J. (792) 173)

Temperature
Kainate; α-Amino-3-hydroxy-5-methyl-4-isoxazolepropionate; MK-801; 6,7-Dinitroquinoxaline-2,3-dione; Indomethacin (Yanase, T. (798) 304)

Brainstem; In vitro; Newborn rat; Opioid; Respiration; Age (Takita, K. (800) 308)

Melatonin; Suprachiasmatic nucleus; c-*fos*; DOI; mCPP (Kennaway, D.J. (806) 257)

Human $GABA_A$ receptor; Zolpidem (Munakata, M. (807) 199)

Temperature regulation
Autonomic nervous system; Fever; Herpes virus; Hypothalamus; Medulla oblongata; Oxytocin; Paraventricular hypothalamic nucleus; Periaqueductal gray matter; Preoptic region; Pseudorabies virus; Raphe magnus; Sympathetic nervous system; Viral transneuronal tracing (Smith, J.E. (786) 153)

Posterior hypothalamic warm and cold responsive neurons; Thermoresponsiveness; Shivering vs. non-shivering thermogenesis (Li, Q. (794) 80)

Temperature sensitivity
Hypothalamic neuron; Opioid receptor agonist and antagonist; Opioid-hypothermia; Rat (Yakimova, K.S. (786) 133)

Temporal cortex
Alzheimer's disease; Hippocampus; Bcl-2 family; Caspase family; Human neuroblastoma cell line SH-SY5Y (Kitamura, Y. (780) 260)

Temporal disintegration
Tetrahydrocannabinol; Cerebral blood flow; Positron emission tomography; Cerebral metabolism; Cerebellum; Anterior cingulate (Mathew, R.J. (797) 183)

Temporal lobe
Epilepsy; Hippocampus; Inhibition; Seizure; Silent period (Mangan, P.S. (799) 183)

Temporal lobe epilepsy
Kindling; Seizure; Fear; Defensive behavior; Hippocampus; Caudate; Amygdala (Kalynchuk, L.E. (779) 149)

Kindling; Mossy fiber sprouting; Synaptic reorganization; Amygdala; Dentate gyrus; Hippocampus; Seizure (Armitage, L.L. (781) 37)

Epileptogenesis; Epileptogenic focus; Nonlinear dynamics; Nonlinear association analysis; Surrogate data (Le Van Quyen, M. (792) 24)

Neurotrophin; Septohippocampal neuron; Forebrain cholinergic neuron; Hippocampus (Correia, L. (809) 288)

Intracerebral injection; NADPH diaphorase; Somatostatin (Miettinen, R. (813) 9)

Temporal processing
Auditory; Speech; Language; Magnetoencephalography; Lateralization; Cognitive neuroscience (Gage, N. (814) 236)

Temporary focal ischemia
Cerebral ischemia; Spreading depression; Ischemic tolerance (Yanamoto, H. (784) 239)

Terminal nerve
Gonadotropin-releasing hormone; Cerebrospinal fluid; Nervus terminalis; Elasmobranch; Radioimmunoassay (Moeller, J.F. (806) 104)

GnRHir cell; Reconstruction; Quantification; Common mole-rat (*Cryptomys* sp.) (Jastrow, H. (813) 229)

Terminal Schwann cell
Regeneration; Periodontal ligament; Growth-associated protein 43; Ruffini ending; Inferior alveolar nerve; Nerve injury (Youn, S.H. (787) 41)

Testis
Testosterone; FSH; Body weight; Sex difference; Free-running; Diurnal; Rodent (Goel, N. (792) 229)

Testosterone
Amygdala; Central tegmental field; Early immediate gene; Sex behavior (Gréco, B. (781) 15)

Hypothalamus; Aromatase; 5α-Reductase; Rats; Progesterone (Lephart, E.D. (789) 327)

FSH; Testis; Body weight; Sex difference; Free-running; Diurnal; Rodent (Goel, N. (792) 229)

Estradiol; Stroke; Brain ischemia; Male rat; Middle cerebral artery occlusion (Hawk, T. (796) 296)

Testosterone propionate
Partner preference; Medial preoptic area/anterior hypothalamus; Estradiol benzoate (Paredes, R.G. (813) 1)

1,2,3,4-Tetrahydro-β-carboline
Cigarette smoke; Dopaminergic neuroprotection; MAO inhibition; Parkinson's disease (Soto-Otero, R. (802) 155)

Tetrahydrobiopterin
L-arginine; Dopamine release; NO; NO synthase; Oxygen free radical (Liang, L.P. (800) 181)

Nitric oxide; GTP-cyclohyrolase; Inducible nitric oxide synthase (Barker, J.E. (804) 1)

Tetrahydrocannabinol
Cerebral blood flow; Positron emission tomography; Cerebral metabolism; Temporal disintegration; Cerebellum; Anterior cingulate (Mathew, R.J. (797) 183)

Δ^9-Tetrahydrocannabinol
Cannabinoid; Perinatal exposure; Intravenous morphine self-administration; Opiate; Opioid neuron; Opioid receptor; Reinforcement; Drug addiction (Vela, G. (807) 101)

CB_1 receptor; Hippocampus; Microdialysis; Acetylcholine; SR141716A (Carta, G. (809) 1)

Tetrahydroisoquinoline
Endogenous amine; Deprenyl; Gas chromatography-selected ion monitoring method; Monoamine oxidase; Parkinson's disease (Kotake, Y. (787) 341)

Tetrodotoxin
Entorhinal cortex; Fimbria–fornix; Passive avoidance acquisition; Functional inactivation (Baldi, E. (799) 270)

TFMPP
VMN; DOI; Quipazine; Ketanserin; Serotonin (Wolf, A. (779) 84)

Serotonin; Fenfluramine; Fluoxetine; 8-OH-DPAT; Food intake (Currie, P.J. (800) 62)

TGF-β2
Apoptosis; In vitro; Neurotrophin; IGF; FGF (Oorschot, D.E. (789) 315)

TGFβ
TGFβ; In vitro; Autoradiography; Microglia; Proliferation (Jones, L.L. (795) 301)

Thalamic paraventricular nucleus
Central amygdaloid nucleus; Lateral bed nucleus of the stria terminalis; Insular cortex; Extracellular recording; Electrical stimulation (Veinante, P. (794) 188)

Thalamocortical neuron
Cortical motor area; Corticocortical neuron; Diamidino yellow; Fast blue; Statistical comparison (Wang, Y. (781) 137)

Thalamo-Wulst
Visual projection; Tecto-rotundal; Axon collateral; Double labeling; Fluorescent tracer; Chicken (Deng, C. (794) 281)

Thalamus
Substantia nigra pars reticulata; Prefrontal cortex; Motor cortex; Caudate nucleus; Putamen; Subthalamic nucleus; Monkey (Kitano, H. (784) 228)

Nociception; Visceral sensation; Somatovisceral convergence; DNIC; Descending and ascending inhibition (Brüggemann, J. (787) 269)

Nucleus accumbens; Paraventricular nucleus of the thalamus; Prefrontal cortex; Rat; Striatum (Bubser, M. (787) 304)

Leptin; Leptin receptor; OB protein; OB-R; Obesity; Hypothalamus; Piriform cortex; Choroid plexus; Concentration of hydrogen ions (Corp, E.S. (789) 40)

Transcription factor; Activator protein-1; Phosphorylation of CREB; Ischemia; Striatum (Kuramoto, N. (806) 152)

Hypertensive rat; Timm staining; Neocortex; Striatum (Sørensen, J.C. (812) 265)

Absence seizure; Neuroactive steroid; γ-Hydroxybutyric acid (GHB); Binding (Banerjee, P.K. (813) 343)

Thapsigargin
Cerebral ischemia-anoxia; Hippocampus; Calcium; CLSM; Fluo-3–Fura Red (Grøndahl, T.Ø. (796) 125)

THC
Anandamide; Basal ganglia; CP 55,940; Cannabinoid; Circling; Marijuana; Movement (Miller, A.S. (793) 7)

Δ^9-THC
Anandamide; Cannabinoid; c-*fos*; Hypothalamus; Rat (McGregor, I.S. (802) 19)

THDA neuron
Lactation; Dopamine; DOPAC; Prolactin; TIDA; PHDA; Pituitary gland (Nagy, G.M. (790) 315)

Theophylline
Cerebral circulation; Newborn; Excitatory amino acid; Nitric oxide (Bari, F. (780) 237)

Cervical spinal cord injury; Functional recovery; Hemidiaphragm; Phrenic nerve (Nantwi, K.D. (789) 126)

Thermal hyperalgesia
Neuropathic pain; N-type voltage-sensitive calcium channel; P-type voltage-sensitive calcium channel; Chronic constriction injury; Partial sciatic nerve injury (Yamamoto, T. (794) 329)

Thermal injury
Pain modulation; Pharmacology; Allodynia; Pain; Rat (Jones, D.L. (810) 93)

Thermal stimulation
Caudate–putamen; Globus pallidus; Nociception; Electrophysiology; Rat (Chudler, E.H. (812) 283)

Thermography
Hyperalgesia; Allodynia; Visible flare; Blood flow; Capsaicin (Mohammadian, P. (792) 1)

Thermoregulation
Dopamine; Dopamine receptor; A 68930 ((1*R*,3*S*)-1-aminoethyl-5,6-dihydroxy-3-phenylisochroman HCl); 7-OH-DPAT ((±) 7-hydroxy-2-(di-*n*-propylamino)tetralin HBr); Locomotor activity; Rat (Salmi, P. (781) 188)

Torpor; Food intake; Metabolism (Ruby, N.F. (782) 63)

Thermoresponsiveness
Temperature regulation; Posterior hypothalamic warm and cold responsive neurons; Shivering vs. non-shivering thermogenesis (Li, Q. (794) 80)

Thermosensitive neuron
Calcium; Fura-PE3; Dorsal root ganglion; Warm cell (Gotoh, H. (796) 319)

Theta burst
Cyclothiazide; Excised patch; CA1; Pyramidal neuron; Long-term potentiation, LTP; Synaptic plasticity (Arai, A. (799) 235)

Theta burst stimulation
Hippocampus; Unilateral lesion; Rat; LTP (Van Praag, H. (795) 170)

Theta rhythm
Lateral septum; In vivo; Intracellular recording; Hippocampal rhythm (Pedemonte, M. (800) 145)

Theta rhythm amplitude
Nitric oxide; ARG; NMMA; Septum; Hippocampus; Urethane-anesthetized rat (Monmaur, P. (787) 165)

Thiamin deficiency
Wernicke–Korsakoff syndrome; Hippocampus; Magnetic resonance imaging; Glucose (Jordan, L.R. (791) 347)

Thioflavine-T fluorescence
Laminin; A β42; Alzheimer's disease; Electron microscopy (Monji, A. (788) 187)

Laminin; Apolipoprotein E; Alzheimer's disease; Amyloid-β-protein; Electron microscopy (Monji, A. (796) 171)

Thiol compounds
Nitric oxide synthase; Enzyme activity; Methylmercuric chloride; Mercuric chloride; Inhibition (Shinyashiki, M. (798) 147)

Third ventricle
Obesity; Zucker rat; Food intake (Donahey, J.C.K. (779) 75)

Thirst
Osmoregulation; Fos; Daily cycle; Water deprivation; Water balance; *Peromyscus* (Chae, H.E. (791) 1)

Thorny excrescences
Self-stimulation reward; CA3 neurons of hippocampus; Mossy fibers (Shankaranarayana Rao, B.S. (804) 320)

Three dimensional reconstruction
Calcitonin gene-related peptide; Substance P; NK 1 receptor; Confocal microscopy (Ladic, L.A. (795) 312)

Thrombin
3-NPA; Glia; bFGF; GFAP (Deshpande, S.B. (783) 28)

Endothelin-1; ET_A; ET_B; Endothelin receptor antagonist; Hirudin; Astrocyte; Rat (Hasselblatt, M. (785) 253)

Thrombin receptor
Thrombin receptor activating peptide; Peripheral nervous system; PL Cγ-1; Hirudin (Gill, J.S. (797) 321)

Thrombin receptor activating peptide
Thrombin receptor; Peripheral nervous system; PL Cγ-1; Hirudin (Gill, J.S. (797) 321)

Thrombotic stroke
P-selectin; E-selectin; Rat; Middle cerebral artery occlusion; Embolic stroke (Zhang, R. (785) 207)

Thromboxane
Rat; Brain; Basilar artery; Angiotensin II; Endothelin-1; Arginine vasopressin; Stroke (Mayhan, W.G. (783) 326)

Thymidine
Zidovudine; Lamivudine; Lipid solubility; Blood–brain barrier (Wu, D. (791) 313)

Thymus
Vagus nerve nuclei; Recurrent laryngeal nerve; Retrograde tracer (Dovas, A. (809) 141)

Thyroid hormone
Aging; Hormone action; Hyperthyroidism; Hypothyroidism; Cerebral response (Mooradian, A.D. (793) 302)

Thyrotropin releasing hormone
c-*fos*; c-*jun*; Hypothalamic neuron; Glucocorticoid (Luo, L.-G. (791) 56)

Thyroxine
Cerebrospinal fluid; Choroid plexus epithelial cell; Ependymal cell; Transthyretin; Triiodothyronine (Kuchler-Bopp, S. (793) 219)

Triiodothyronine; Deiodinase; Human; Brain; Tumor (Calvo, R.M. (801) 150)

Tibialis anterior
Human gait; Cutaneous reflexes; Sural nerve; Cortical facilitation; Magnetic stimulation; Biceps femoris (Pijnappels, M. (787) 149)

TIDA
Lactation; Dopamine; DOPAC; Prolactin; PHDA; THDA neuron; Pituitary gland (Nagy, G.M. (790) 315)

TIDA neuron
PACAP; Prolactin; DOPAC; Microdialysis; Sheep (Anderson, S.T. (790) 343)

Time course
Bupropion; Potassium; Haloperidol; Microdialysis; Striatum; Dopamine; DOPAC; Axotomy; Rat (Holson, R.R. (808) 182)

Timm's staining
Cell culture; Zinc; Calcium; Glutamate; Neurotoxicity; Cobalt; Co^{2+} (Yin, H.Z. (781) 45)

Zinc; Neurotoxicity; Hippocampus; Metal chelating agent (Cuajungco, M.P. (799) 97)

Zinc; Neurotoxicity; Kainic acid; Epilepsy; Hippocampus; Metal chelating agent (Lees, G.J. (799) 108)

Nitric oxide; Zinc; TSQ fluorescence; Hippocampus; Metal chelating agent; Kainic acid; Epilepsy (Cuajungco, M.P. (799) 118)

Hypertensive rat; Neocortex; Striatum; Thalamus (Sørensen, J.C. (812) 265)

Tirilazad
Cat; Soleus; Motor nerve terminal; Post-tetanic potentiation; Edrophonium; Repetitive discharge (Hall, E.D. (779) 346)

Tissue culture
ELISA; Inflammation; Alzheimer's disease; Gene expression (Walker, D.G. (809) 31)

Tissue injury
Neutrophil depletion; Blood–brain barrier; RP3 monoclonal antibody; Cerebritis; Cerebrovascular permeability (Lo, W.D. (802) 175)

Tissue plasminogen activator
Hippocampus; Extracellular matrix; LTP (Hoffman, K.B. (811) 29)

Tolbutamide
ATP-inhibited K^+ channel; Membrane potential; Cromakalim; HOE 234; Metabolic inhibition (Frey, G. (798) 247)

Brain; Hypoxia; Purine; Pyrimidine; K_{ATP} channel; Diazoxide (Pissarek, M. (812) 164)

Tolerance
Alcohol; *N*-methyl-D-aspartate; Whole cell; Patch-clamp; Physical dependence (Grover, C.A. (782) 43)

Peptide exposure; Gastrin-releasing peptide; BIM-26226; Rat; Brain (Plamondon, H. (782) 202)

Cocaine; Endocrine; Corticosterone; CRF; Classical; Conditioning (DeVries, A.C. (786) 39)

Morphine; Diazepam; Opioid; Benzodiazepine; μ-Opioid receptor; Constitutive receptor; Brain region; Spinal cord; Peripheral tissue; CNS (Tejwani, G.A. (797) 305)

Genetic variability; Morphine; Withdrawal; Sprague–Dawley; Wistar–Kyoto; Spontaneously hypertensive (Hoffmann, O. (806) 232)

Neuropeptide FF; Anti-opioid; Analgesia; Morphine; Mouse (Gelot, A. (808) 166)

Seizure; Hippocampus; Kainate; Pentobarbital (Najm, I.M. (810) 72)

Antinociception; Improgan (Bannoura, M.D. (814) 218)

Toluene
Medial vestibular nucleus; Vestibular system; In vitro (Magnusson, A.K. (779) 334)

Tongue
Enkephalin; Hypoglossal nucleus; Rat; Respiration; Upper airway (Aldes, L.D. (780) 67)

Tonic inhibitory control
Calcitonin gene-related peptide; Spinal release; Opioid receptor; Polyarthritis; Intrathecal perfusion (Ballet, S. (796) 198)

Tonotopic organization
Primary auditory cortex; Monkey; Current source density; Multiunit activity; Pitch encoding (Fishman, Y.I. (786) 18)

Tooth pulp
Guinea pig; Jaw-opening reflex; NK1 antagonist; Immunocytochemistry; Substance P; Primary sensory neuron (Alia, S. (787) 99)

c-*fos*; *zif*268; Spinal trigeminal tract nucleus; Subnucleus oralis (Sugimoto, T. (794) 353)

Topiramate
Antiepileptic drug; Glutamatergic transmission; Hippocampal CA3 neuron; Abnormal excitation; Spontaneously epileptic rat (SER) (Hanaya, R. (789) 274)

Antiepileptic agent; Focal cerebral ischemia; Neuroprotection; Infarct volume; Rat (Yang, Y. (804) 169)

Subiculum; Na^+-electrogenesis; GABA; Rat (Kawasaki, H. (807) 125)

Topographic map formation
Visual system; *Rana pipiens*; 5-HT_1 receptor; 5-HT_2 receptor; Visual plasticity (Malayev, A.A. (781) 167)

Torpedo ACh receptor
Outside-out patch; Protein phosphorylation; Desensitization; Site-directed mutagenesis (Nishizaki, T. (812) 242)

Torpor
Thermoregulation; Food intake; Metabolism (Ruby, N.F. (782) 63)

Touch
Allodynia; Capsaicin; Hyperalgesia; Inflammation; Pain; Tactile perception; Vibration (Kauppila, T. (797) 361)

Toxicity
METH; Degeneration; *p53* (Cadet, J.L. (786) 240)

Toxoplasma gondii
Trypomosama cruzi; Toxoplasmosis; Glia; Connexin; Cx43; Cx26; Dye coupling (Campos de Carvalho, A.C. (790) 304)

Toxoplasmosis
Toxoplasma gondii; *Trypomosama cruzi*; Glia; Connexin; Cx43; Cx26; Dye coupling (Campos de Carvalho, A.C. (790) 304)

$T2^*$-weighted MRI
Functional MRI; Bromocriptine; Haloperidol; D_2 dopamine receptor agonist; D_2 dopamine receptor antagonist (Hagino, H. (813) 367)

Tramadol
Antinociception; Formalin; Hyperalgesia; Plantar test (Bianchi, M. (797) 163)

Transcription
c-*fos*; hsp70; Brain slices; Apoptosis; NMDA; Translation; Neonate; Stress proteins; Immediate early genes (Hasegawa, K. (785) 262)

Opioid; Prodynorphin gene; Human; Promoter (Telkov, M. (804) 284)

Transcription factor
GDNF; Promoter; Gene regulation; Genomic structure (Woodbury, D. (803) 95)

Activator protein-1; Phosphorylation of CREB; Ischemia; Thalamus; Striatum (Kuramoto, N. (806) 152)

Transendothelial resistance
Blood–brain barrier; Endothelial cell; Glutathione; Nitric oxide; Oxidative stress (Hurst, R.D. (802) 232)

Transferrin
Iron; Neurotrophic factors; Ferritin; Transferrin receptor; Neuron (Dickinson, T.K. (801) 171)

Transferrin receptor
Blood–brain barrier; Cerebrospinal fluid; Choroid plexus; Developing brain; Homeostasis; Iron (Moos, T. (790) 115)

Iron; Neurotrophic factors; Ferritin; Transferrin; Neuron (Dickinson, T.K. (801) 171)

Transganglionic transport
Trigeminal system; Somatotopic organization; Nitric oxide; Nerve injury; Trans-synaptic regulation; Horseradish peroxidase (Takemura, M. (781) 78)

Baroreceptor; Carotid sinus nerve; Chemoreceptor; Histochemistry; Immunocytochemistry; Synapse; Ultrastructure (Massari, V.J. (785) 329)

Catecholamine; Heart; Histochemistry; Immunocytochemistry; Intrinsic cardiac ganglion; Synapse; Ultrastructure; Vagus nerve (Massari, V.J. (802) 205)

Transgenic
Brain; Iron; Neonate; Mouse; Hypoxia–ischemia (Sheldon, R.A. (810) 114)

Seizure; Kainate; Status epilepticus; In situ nick translation; Apoptosis; Neuronal injury; Heat shock protein; Neuronal stress (Hu, R.Q. (810) 229)

Transgenic mouse
Myelin basic protein; *Shiverer*; Gene therapy; Myelinogenesis; Central nervous system (Kimura, M. (785) 245)

Heme oxygenase; Morris water maze; Y maze alternation (Morgan, D. (808) 110)

Gene dosage; Glucose metabolism; Phosphofructokinase; In vivo NMR (Peled-Kamar, M. (810) 138)

Transgenic rat
Renin; Angiotensin; Vasopressin; Angiotensin 1–7; Hypothalamic nucleus; Immunocytochemistry (Krob, H.A. (798) 36)

Transglutaminase
α_1-adrenoreceptor; G protein; Apoptosis; Neuroepithelium (Gill, L.S. (788) 95)

Transient auditory memory
Mismatch negativity; Feature conjunction (Sussman, E. (793) 95)

Transient cerebral ischemia
Middle-latency auditory evoked potential; Gerbil; Auditory cortex; Neuronal death (Ichiki, H. (806) 278)

Transient forebrain ischemia
Mechanism; Indomethacin; Apoptosis; Cyclooxygenase (Kondo, F. (791) 352)

Excitatory synaptic transmission; Long-term potentiation; Neuronal excitability; Dentate gyrus (Aoyagi, A. (799) 130)

Transient ischemia
Maturation phenomenon; Heat shock gene; Immediate early gene; TUNEL (Hermann, D.M. (799) 35)

Transition metal
Amyloid; Iron; Reactive oxygen species; Aluminum (Bondy, S.C. (799) 91)

Translation
c-*fos*; hsp70; Brain slices; Apoptosis; NMDA; Transcription; Neonate; Stress proteins; Immediate early genes (Hasegawa, K. (785) 262)

Transneuronal degeneration
Basal ganglia; Excitotoxicity; Substantia nigra reticulata; Programmed cell death (DeGiorgio, L.A. (795) 1)

Transplant
6-Hydroxydopamine; Methamphetamine; Fos; Striatum; Substantia nigra pars reticulata (Ishida, Y. (809) 107)

Transplantation
Rat sciatic nerve; Peripheral nerve; Nerve regeneration; Nerve grafting; Nerve repair (Sondell, M. (795) 44)

Transport
Choroid plexus; Histidine; Rat (Xiang, J. (783) 37)

Transporter
Olfaction; Noradrenaline; Reuptake; In vitro superfusion; Memory/recognition (Shang, Y. (779) 119)

Dopamine; Methamphetamine; Release; Midbrain culture (Bennett, B.A. (782) 219)

Methamphetamine; Serotonin; Glutamate; Striatum (Kokoshka, J.M. (799) 78)

γ-Aminobutyric acid; Uptake; Brain capillary; Brain capillary endothelial cell; Blood–brain barrier (Zhang, Y. (808) 1)

Transport inhibitor
LTP; Ganglion; Sympathetic; Adenosine; Receptor (Hogan, Y.H. (807) 19)

***Trans*-synaptic**
Choline acetyltransferase; Neocortical atrophy; Nissl-staining; Nicotinic (Meyer, E.M. (786) 252)

Trans-synaptic regulation
Trigeminal system; Somatotopic organization; Nitric oxide; Nerve injury; Transganglionic transport; Horseradish peroxidase (Takemura, M. (781) 78)

Transsynaptic tracing
Barrington's nucleus; Pontine micturition center; Distal colon; Locus coeruleus; Irritable bowel syndrome; Pseudorabies virus; Retrograde tracing (Pavcovich, L.A. (784) 355)

Trans-synaptic transport
Dorsal root ganglion; Nodose ganglion; Nucleus tractus solitarius; Visceral sensory pathways; Dorsal root rhizotomy (Weiss, M.L. (812) 227)

Transthyretin
Cerebrospinal fluid; Choroid plexus epithelial cell; Ependymal cell; Thyroxine; Triiodothyronine (Kuchler-Bopp, S. (793) 219)

Traumatic brain injury
Ornithine decarboxylase; Western blotting; Polyamine (Raghavendra Rao, V.L. (783) 163)

Cat; Cytoskeleton; Neurofilament; Phosphorylation; Calcium (Okonkwo, D.O. (784) 1)

Cerebral ischemia; Nitric oxide synthase (NOS); NO end product; Nitrite/nitrate (NO_x); 2,3-diaminonaphthalene (DAN); Cortex; Hippocampus (Rao, A.M. (793) 265)

Immediate early gene; c-*fos*; c-*jun*; Messenger RNA; In situ hybridization (Katano, H. (800) 69)

Endothelin-1; Ro 61-1790; Heat shock protein; Microglia (Sato, M. (809) 39)

TRH
Kindling; Protirelin; Epilepsy; Anticonvulsant; Drug delivery (Kubek, M.J. (809) 189)

T-rhythm
Afferent input; Blood vessel; Postganglionic (Smith, J.E. (811) 169)

Trigeminal
Acute plasticity; Receptive field; Infraorbital nerve; Subnucleus interpolaris; Extracellular recording (Klein, B.G. (779) 136)

Comparative anatomy; Development; Dove; Feeding; Quinto-frontal (Ye, S. (788) 349)

Electrophysiology; Common chemical sense; Taste (Pittman, D.W. (790) 224)

Parabrachial; Kölliker–Fuse; Solitarius; Diving response; Sensory–autonomic integration (Dutschmann, M. (809) 221)

Trigeminal ganglia
Neurocalcin; Calcium-binding protein; Dorsal root ganglia; Nodose ganglia; Rat (Iino, S. (781) 236)

Trigeminal ganglion
μ-opioid receptor; Substance P; Calcitonin gene-related peptide; Dorsal root ganglion; Spinal cord; Nociception; Rat (Li, J.-L. (794) 347)

Dorsal root ganglion; Spinal cord; Pain; Immunohistochemistry (Takiguchi-Hayashi, K. (801) 9)

Capsaicin; Nerve injury; Primary neuron; Apoptosis; Nerve growth factor (Sugimoto, T. (807) 147)

Trigeminal motor nucleus
Masseteric motoneuron; HRP; IPSP; EPSP; Dendritic arbor; Cat (Kamogawa, H. (785) 18)

Trigeminal nerve
Nociception; Lamina II; GABA; Glycine; Inhibitory neurotransmitter; Colocalization (Dumba, J.S. (806) 16)

Trigeminal nucleus
Trigeminal nucleus, spinal; Inflammation; Neuropeptide (Roche, A.K. (791) 283)

Trigeminal nucleus, spinal
Trigeminal nucleus; Inflammation; Neuropeptide (Roche, A.K. (791) 283)

Trigeminal system
Somatotopic organization; Nitric oxide; Nerve injury; Trans-synaptic regulation; Transganglionic transport; Horseradish peroxidase (Takemura, M. (781) 78)

Locus coeruleus; Modulation; Somatosensory cortex; Noradrenergic (Waterhouse, B.D. (790) 33)

Trigemino-facial reflex
Blink reflex; Cutaneous afferent; Trigemino-hypoglossal reflex; Mucosal afferent; Man (Maisonobe, T. (810) 220)

Trigemino-hypoglossal reflex
Trigemino-facial reflex; Blink reflex; Cutaneous afferent; Mucosal afferent; Man (Maisonobe, T. (810) 220)

Trigeminus
Blink reflex; DNIC; Interneuron; Convergence; Brainstem (Ellrich, J. (803) 161)

Triglyceride
Neuropeptide Y; Free fatty acid; Anorexia; Cachexia; Obese gene product; Leptin receptor (Chance, W.T. (803) 27)

Triiodothyronine
Cerebrospinal fluid; Choroid plexus epithelial cell; Ependymal cell; Thyroxine; Transthyretin (Kuchler-Bopp, S. (793) 219)

Thyroxine; Deiodinase; Human; Brain; Tumor (Calvo, R.M. (801) 150)

TRIM
Nitric oxide; Periaqueductal gray; Blood pressure; GABA; Enkephalin; Glutamic acid; Hydroxylamine; Sodium nitroprusside (Hall, C.W. (805) 69)

Trisomy 16 mouse
Cortical primary culture; Oxidative stress; Western blot analysis; Metallothionein I/II; Hydrogen peroxide; Glutamate receptor stimulation (Scortegagna, M. (787) 292)

trk
Colchicine; Nucleus basalis; Cholinergic hypofunction; AChE; NGF; BDNF (Shaughnessy, L.W. (781) 62)

trkA
Estrogen; Aging; Choline acetyltransferase; Neurotrophins; Basal forebrain (Singer, C.A. (789) 343)

trkA
Aldose reductase; Inflammation; Nerve growth factor; Neurotrophin-3; Oxidative stress; Substance P (Fernyhough, P. (802) 247)

TrkB
Hypoxic/ischemic; Immunocytochemistry; BDNF; NT-4/5 (Narumiya, S. (797) 278)

trkB
Retinal pigmented epithelium; Photoreceptors; BDNF; Trophic factors; Differentiation (Hackett, S.F. (789) 201)

Aging; Brain-derived neurotrophic factor; Neurotrophin; Memory (Croll, S.D. (812) 200)

trkB receptor
Kainic acid; Neurotrophin; Brain-derived neurotrophic factor; Basal forebrain; Hippocampus; Degeneration (Venero, J.L. (790) 270)

Trolox
Apoptosis; DNQX; Hypoxia; Neuron; Oxidative stress (Copin, J.-C. (784) 25)

Trophic factor
Neuroprotection; Dopamine; DA receptor; Purification (Ling, Z.D. (791) 137)

Retinal pigmented epithelium; Photoreceptors; trkB; BDNF; Differentiation (Hackett, S.F. (789) 201)

True-blue
Lateral hypothalamic area; Zona incerta; Medial septal nucleus; Nucleus of diagonal band;

Spinal cord; Diamidino yellow; Retrograde tracer; Anterograde tracer; Melanin-concentrating hormone; Neuropeptides (Bittencourt, J.C. (805) 1)

Trypomosama cruzi
Toxoplasma gondii; Toxoplasmosis; Glia; Connexin; Cx43; Cx26; Dye coupling (Campos de Carvalho, A.C. (790) 304)

TSQ fluorescence
Nitric oxide; Zinc; Timm's staining; Hippocampus; Metal chelating agent; Kainic acid; Epilepsy (Cuajungco, M.P. (799) 118)

TTX
Axonal conduction; Fiber volley; Glutamate; Presynaptic; Pre-terminal (Mikulec, A.A. (796) 231)

Carotid body; Glomus cell; Intracellular sodium; Voltage clamp; Hypoxia; Cobalt; Barium (Jiang, R.-G. (797) 197)

T-type calcium channel
Epilepsy; Afterdischarge; Ictal activity; Interictal activity; Hippocampal slice (Higashima, M. (781) 129)

Tuberomamillary nucleus
Pick's disease; Hypothalamus; Lateral tuberal nucleus; Neuronal cytoskeleton; Tauopathy; Tau-protein (Braak, H. (802) 119)

D-tubocurarine
Dopamine neuron; Depolarization block; Chronic haloperidol; Succinylcholine; Gallamine; Chloral hydrate (Melis, M. (783) 127)

TuJ1-immunoreactive fiber
Substance P; CGRP; Chicken; Carotid body; Vagus nerve (Kameda, Y. (807) 246)

Tumor
gp120; HIV; MADB106; IL-1; Metastasis (Hodgson, D.M. (781) 244)

Thyroxine; Triiodothyronine; Deiodinase; Human; Brain (Calvo, R.M. (801) 150)

Tumor necrosis factor
Allodynia; Hyperalgesia; Chronic constriction injury; Interleukin-1; Wallerian degeneration (Sommer, C. (784) 154)

Interleukin; Leptin; Neuropeptide Y; Opioid; Glucocorticoid; Corticotropin; Endotoxin; Nervous system; Cerebellum; Hippocampus; Hypothalamus; Feeding; Food intake; RNase protection; Competitive RT–PCR (Gayle, D. (795) 77)

Tumor necrosis factor α
MoMuLV (Moloney murine leukemia virus)-*ts*1; Central nervous system; Neurodegeneration; Cytokine; Cell death; Fas; Fas ligand (Choe, W. (779) 1)

AIDS dementia complex; Inflammation; Antioxidant; Apoptosis; Memory impairment (Bjugstad, K.B. (795) 349)

Tumor necrosis factor-alpha
Astrocyte; Ependymal cell; Ischemia; Middle cerebral artery occlusion; Neuron (Gong, C. (801) 1)

TUNEL
Transient ischemia; Maturation phenomenon; Heat shock gene; Immediate early gene (Hermann, D.M. (799) 35)

Turning
Reward; Reinforcement; Addiction; Locomotion; Rearing; Grooming; Neurokinins; Opiates; Psychostimulants; Ventral striatum; Rat (Schildein, S. (790) 185)

Turning behavior
Glutaric acid; Organic acidemia; Neurotoxicity; GABA; Glutamate; Seizure; Striatum (Lima, T.T.F. (802) 55)

6-OHDA lesion; Striatum; Substantia nigra; L-DOPA; Lidocaine (Mura, A. (808) 48)

Turtle
Long-term potentiation; Medial cortex; NMDA; AMPA; Nifedipine (Muñoz, M.-D. (807) 155)

Two-way active avoidance
Intracranial self-stimulation; Parafascicular nucleus; Memory consolidation process; Learning and retention; Lateral hypothalamus (Massanés-Rotger, E. (808) 220)

L-type Ca^{2+} channels
Partial denervation; Nifedipine; Motor unit; Rat skeletal muscle; Motor unit territory (White, C.M. (779) 125)

Type II neurons
Peripherin; Intermediate filaments; Outer hair cells; Cochlea (Hafidi, A. (805) 181)

Type VII adenylyl cyclase
Immunocytochemistry; In situ hybridization; Rat (Mons, N. (788) 251)

Tyramide-signal amplification
Endothelial nitric oxide synthase; Brain development; Vasculature; Rat; Immunohistochemistry (Töpel, I. (788) 43)

Tyramine
Monoamine oxidase; Serotonin; β-Phenylethylamine; Dopamine; Substantia nigra; Dorsal raphe nucleus; Locus ceruleus (Arai, R. (812) 275)

Tyrosine hydroxylase
Medullary visceral zone; Habenular nucleus; Fos; Catecholamine; Rat (Li, T. (783) 51)

Chemoreceptor; Glial fibrillary acidic protein; Oxygen; Patch clamp; Potassium channel (Chou, C.-L. (789) 229)

Freund's adjuvant arthritis; Circadian rhythms; Lymph nodes; Spleen; Ornithine decarboxylase; Acetylcholine synthesis (Cardinali, D.P. (789) 283)

Gonadotropin-releasing hormone; Nitric oxide; Hypothalamus; Gene expression (Wang, H. (792) 66)

Rat; Striato-pallidal system; Septum; Calcium binding protein (Seifert, U. (795) 227)

Niemann–Pick type C disease; L-DOPA; Serotonin; Glycine; Cerebellum (Yadid, G. (799) 250)

Calcitonin gene-related peptide; Jugular ganglion; NADPH-diaphorase; Nodose ganglion; Petrosal ganglion; Somatostatin; Substance P (Ichikawa, H. (800) 312)

Hypoxia; Glomus cell; Neuropeptide Y; Immunohistochemistry; Electron microscopy (Kameda, Y. (805) 191)

Human; Substantia nigra; Ventral tegmental area; Aromatic L-amino acid decarboxylase; Dopamine; Immunohistochemistry (Ikemoto, K. (805) 255)

Methamphetamine; Dopamine; Serotonin; Neurotoxicity; Hyperthermia; Rat; Glial fibrillary acidic protein; Western blot (Fukumura, M. (806) 1)

Fluoro-gold; Iontophoresis; Fluorescent histochemistry; mRNA; In situ hybridization (Cheung, S. (808) 174)

Retrograde tracing; Anterograde tracing; Cholinergic; Nitric oxide synthase; CGRP (Sang, Q. (809) 253)

Monoamine oxidase; Enzyme histochemistry; Fluorescence immunohistochemistry; Locus coeruleus; Noradrenergic neuron (Hida, T. (814) 209)

Antibody; α7 subunit; Chemoreceptor; Immunocytochemistry (Shirahata, M. (814) 213)

Tyrosine kinase
Compression; Rat astrocyte RCR-1 cell; Proliferation; Signaling pathway; Injury of central nervous system (Oishi, Y. (781) 159)

Substantia nigra; Immunocytochemistry; Parkinson's disease; Growth factor; Dopaminergic (Walker, D.G. (792) 207)

Dopaminergic; Cell death; Neurodegeneration; Neuron (Walker, D.G. (794) 181)

Tyrosine phosphatase
Adenosine; Astrocyte; Stellation; Adenosine receptor; Culture (Abe, K. (804) 63)

Tyrosine phosphorylation
Brainstem; Baroreceptor; Cardiovascular control; Blood pressure; Anaesthetized rat (Man, H.-Y. (792) 141)

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Ultrastructure
Dendro-dendritic connection; Motoneuron; CTB-tracing; Gap-junction; Electrotonic coupling (Van der Want, J.J.L. (779) 342)

Baroreceptor; Carotid sinus nerve; Chemoreceptor; Histochemistry; Immunocytochemistry; Synapse; Transganglionic transport (Massari, V.J. (785) 329)

Motoneurotrophin; Limb bud; Motoneuron; Nerve regeneration; Nerve injury (Liu, H.-G. (800) 216)

Catecholamine; Heart; Histochemistry; Immunocytochemistry; Intrinsic cardiac ganglion; Synapse; Transganglionic transport; Vagus nerve (Massari, V.J. (802) 205)

Assembled tau filaments; Paired helical filaments; Scanning transmission electron microscopy; Mass density; Neurodegenerative disorders (Ksiezak-Reding, H. (814) 86)

Undercutting the cortex
Immunohistochemistry; Excitotoxicity; Purkinje cell; Signal transduction; Proto-oncogene; Granule cell; Stellate/basket cell (Chen, S. (795) 87)

Unilateral lesion
Hippocampus; Rat; LTP; Theta burst stimulation (Van Praag, H. (795) 170)

Unit-recording
L-NAME; Whisker pairing; Unpaired control; Principle vibrissa (Maalouf, M. (793) 149)

Unit recordings of the globus pallidus (GPe, GPi)
Parkinson's disease; MPTP-treated monkey; L-DOPA (Boraud, Th. (787) 157)

Unmyelinated primary afferent
B4-HRP; Spinal ganglia; Somatic nerve; Visceral nerve; Peripheral nerve ending (Wang, H.F. (811) 34)

Unpaired control
L-NAME; Unit-recording; Whisker pairing; Principle vibrissa (Maalouf, M. (793) 149)

Upper airway
Enkephalin; Hypoglossal nucleus; Tongue; Rat; Respiration (Aldes, L.D. (780) 67)

Vomiting; Swallowing; Larynx; Pharynx; Superior laryngeal nerve; Glossopharyngeal nerve; Hypoglossal nerve (Umezaki, T. (781) 25)

Up-regulation
5-HT_{1B} receptor; Reinnervation; Graft; Quantitative autoradiography; Suprachiasmatic nucleus; Rat (Manrique, C. (788) 332)

Uptake
γ-Aminobutyric acid; Transporter; Brain capillary; Brain capillary endothelial cell; Blood–brain barrier (Zhang, Y. (808) 1)

Neurotoxin; Mesolimbic system; Monoamine oxidase-B; Electrochemistry; Parkinson's disease (Nakazato, T. (812) 150)

Urethane-anesthetized rat
Nitric oxide; Theta rhythm amplitude; ARG; NMMA; Septum; Hippocampus (Monmaur, P. (787) 165)

Urinary bladder
Diabetes; Nerve growth factor (Steinbacher Jr., B.C. (782) 255)

Urine excretion
Feeding behavior; Histamine; H_1 receptor; H_2 receptor; H_3 receptor; Intracereboventricular infusion; Water intake (Lecklin, A. (793) 279)

Urocortin
Corticotropin-releasing hormone; Anterior pituitary; Receptor; ACTH; Proopiomelanocortin (Asaba, K. (806) 95)

Use-dependency
Brain injury; Sensorimotor cortex; Sensitive period; Recovery of function; Neuroplasticity; Rehabilitation; Glutamate (Humm, J.L. (783) 286)

V

Vacuous chewing movements' syndrome
Cyclosporine; Patch-clamp; Calcium channels; Potassium channels (Hay, M. (786) 243)

NMDA receptor; Tardive dyskinesia; Haloperidol; Striatum; Nucleus accumbens; Receptor autoradiography (Hamid, E.H. (796) 291)

Vagal afferent
Endomorphin 1; Endomorphin 2; Bradycardia; Hypotension; Opiate; μ-Opiate receptor (Kwok, E.H. (803) 204)

Fura-2; Cytosolic calcium; Ca^{2+} channel antagonist; Voltage-gated Ca^{2+} channel; Primary sensory neuron (Sato, M. (813) 203)

Vagus nerve
Baroreceptor; Chemoreceptor; Heart; Intracardiac ganglia (Blinder, K.J. (785) 143)

Metabolism; Metabolic inhibition; Feeding; Caudal brainstem (Horn, C.C. (801) 107)

Catecholamine; Heart; Histochemistry; Immunocytochemistry; Intrinsic cardiac ganglion; Synapse; Transganglionic transport; Ultrastructure (Massari, V.J. (802) 205)

Tachykinin NK_1 receptor antagonist; GR205171, Substance P; Vomiting; Retching; Solitary nucleus (Fukuda, H. (802) 221)

Cardioinhibitory neuron; Bradycardia; Cardiac ganglion; Congestive heart failure; Heart; Myocardial contractility; Parasympathetic nervous system (Blinder, K.J. (804) 325)

Nucleus ambiguus; Anastomosis; Heteroconnection; Supernumerary; Dendritic sprouting (Chang, S.-T. (805) 144)

Substance P; CGRP; TuJ1-immunoreactive fiber; Chicken; Carotid body (Kameda, Y. (807) 246)

Cardioinhibitory neuron; Cardiac ganglia; Heart; Parasympathetic nervous system; Ventricular contractility (Blinder, K.J.L. (810) 251)

Vagus nerve nuclei
Thymus; Recurrent laryngeal nerve; Retrograde tracer (Dovas, A. (809) 141)

Valproic acid
Hippocampus; Veratridine; Phenobarbital; Spontaneous bursting; Epilepsy; Anticonvulsants (Otoom, S. (789) 150)

Variant form
Very low density lipoprotein receptor; Human brain; Myelin; apoE; β-amyloid (Nakamura, Y. (793) 47)

Varicosities
Anterograde tracing; Barrels; Biotinylated dextran amine; Cortical column; Corticostriatal; Neostriatum; Rat (Alloway, K.D. (785) 341)

Vascular anatomy
Global cerebral ischemia; Ischemic brain injury; Mice (Murakami, K. (780) 304)

Vascular cell
Adrenalectomy; Alzheimer's disease; Amyloid protein precursor; Glucocorticoid; Hippocampus (Islam, A. (806) 108)

Vascular endothelial growth factor
Ischemia; Angiogenesis; Astroglia; Hypoxia (Sinor, A.D. (812) 289)

Vasculature
Endothelial nitric oxide synthase; Brain development; Rat; Immunohistochemistry; Tyramide-signal amplification (Töpel, I. (788) 43)

Vasculature atrophy
Amyloid-β; β protein precursor; Hypoperfusion; Oxidative stress (Perry, G. (791) 63)

Vasoactive intestinal peptide
Rat; Male; Female; Metestrous; GnRH; Medial preoptic area; Double labeling immunocytochemistry; Light microscopy (Horvath, T.L. (795) 277)

Vasoactive intestinal polypeptide
Kallikrein; Rat pineal gland; Immunohistochemistry; Immunoelectron microscopy; Perivascular space; ELISA; Circadian rhythm (Kudo, M. (797) 287)

NADPH diaphorase; Nitric oxide synthase; Choline acetyltransferase; Co-localization; Middle cerebral artery; Sphenopalatine ganglia; Pig (Yu, J.-G. (801) 78)

Pituitary adenylate cyclase activating polypeptide; Cholera toxin B subunit; Double immunofluorescent labeling; Dorsal vagal complex; Periaqueductal grey; Dorsal and linear raphe nuclei (Kozicz, T. (810) 211)

Vasodilatation
Cerebral artery; Nitric oxide; Guanylate cyclase; Cyclic GMP; Potassium channel (Onoue, H. (785) 107)

Vasopressin
Microdialysis; Oxytocin; Stress; Hypothalamus (Nishioka, T. (781) 57)

Zucker; Obesity; Oxytocin; Leptin; Neuropeptide Y (Yarnell, D.O. (785) 80)

Oxytocin; Conditioned fear; Norepinephrine; Bed nucleus of the stria terminalis; Footshock (Onaka, T. (788) 287)

Glutamate; Competitive antagonism; Excitatory amino acid; Neurosecretion; Coagonist hypothesis (Currás, M.C. (789) 181)

Supraoptic nucleus; Posterior pituitary; Microdensitometry (Perryman, W.C. (792) 340)

Calcium; IP_1; Cerebral cortex; Calcium channel; Learning and memory (Son, M.C. (793) 244)

Renin; Angiotensin; Angiotensin 1–7; Hypothalamic nucleus; Immunocytochemistry; Transgenic rat (Krob, H.A. (798) 36)

Subtractive hybridization; Down Syndrome; Alzheimer's Disease (Labudova, O. (806) 55)

V1 receptor; T cell; NK cytotoxicity; Corticotropin-releasing hormone; Stress (Shibasaki, T. (808) 84)

Vasospasm
Subarachnoid hemorrhage; Cerebral blood flow; Autoregulation; Rat (Yamamoto, S. (782) 194)

Vector coding of motion
Reaching; Arm–trunk coordination; Synergies; Redundancy problem; Vision (Pigeon, P. (802) 274)

Velocity coding
Kinesthesia; Muscle afferent; Proprioception; Voluntary movement; Direction coding (Ribot-Ciscar, E. (791) 167)

Ventral horn
Spinal cord; Motor function; Chronic microdialysis; Histology (Gerin, C. (794) 169)

Ventral pallidum
Amygdala; Nucleus accumbens; Opioid; DAMGO; Tachykinin; Substance P; Excitatory amino acid; Glutamate; Neuromodulation (Mitrovic, I. (792) 193)

Glycine; Nucleus accumbens; Glutamate; Schizophrenia; Sensorimotor gating (Kretschmer, B.D. (798) 204)

Dopamine; GABA; Locomotor activity; Conditioned reward; Nucleus accumbens (Fletcher, P.J. (805) 29)

Ventral respiratory group
Rhythm generation; Ventrolateral medulla; Propriobulbar neuron; Nucleus ambiguus; Medulla oblongata (Sun, Q.-J. (809) 204)

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Alzheimer's disease
Microtubule associated proteins; Phosphorylation; PHF-1; Tau 1; Neuronal culture (Combs, C.K. (107) 143)

Amino acid receptor
Cocaine; GABA; Glutamate; Hippocampus; Inhibition; Development (Little, J.Z. (110) 115)

AMPA
Biocytin; Development; GABA; NMDA; Somatosensory; Thalamus; Trigeminal; Vibrissa (Leamey, C.A. (105) 195)

Glutamate; GluR; Subcellular; Maturation; Glycosylation; Localization; Synaptic plasticity (Standley, S. (107) 277)

Amphetamine
Acetylcholine release; Development; Dopamine; Striatum (Bolanos, C.A. (111) 25)

Analgesia
Neonatal; Rat; Opioid; Anti-nociception; Morphine; Fentanyl; Meperidine (Thornton, S.R. (105) 269)

Androgen
Stress; Corticosterone; Corticosteroid binding globulin; Mineralocorticoid receptor; Glucocorticoid receptor; Estrogen; Sexual differentiation (McCormick, C.M. (105) 295)

Androsterone
3α,5β-THP; Neural organization; Diazepam; GABA-mediated chloride uptake (Kellogg, C.K. (108) 131)

Anesthesia
Cortical development; Hypothermia; Neuron number; Sex differences; Stereology (Nuñez, J.L. (111) 89)

Aneuploidy
Murine trisomy 16; Down syndrome; Cerebellum; Neuron cell culture; Abnormal neuronal filament (Bersu, E.T. (109) 115)

Antagonist
NMDA receptor subunit; Supersensitivity; Neurotoxicity; Development (Wilson, M.A. (109) 211)

Antidromic stimulation
Age; Synaptic plasticity; Theta rhythm; NMDA; In vitro electrophysiology (Papatheodoropoulos, C. (108) 273)

Antimitotic agent
Neuroblastoma; Apoptosis (Smith, T.T.K. (105) 175)

Anti-nociception
Neonatal; Rat; Opioid; Analgesia; Morphine; Fentanyl; Meperidine (Thornton, S.R. (105) 269)

AP5
Tectum; Plasticity; Glutamate; Excitatory amino acid receptor; Visual deprivation; Iontophoresis (Binns, K.E. (110) 241)

AP-1 binding protein
c-*fos*; Dexamethasone; Prematurity (Slotkin, T.A. (111) 11)

Apoptosis
Neuroblastoma; Antimitotic agent (Smith, T.T.K. (105) 175)

Spinal cord; NMDA receptor; Glutamate receptor; Neonate; Axotomy (Hughes, S. (105) 209)

Inhibitory interneuron; GABA; Muscimol; Rat telencephalon; Aggregate cell culture (Honegger, P. (105) 219)

Bed nucleus of the accessory olfactory tract; Sex difference; Development; Vomeronasal system; Stereology (Collado, P. (109) 99)

Circadian; Neuronal death; Retinohypothalamic; Stereological; Suprachiasmatic (Müller, C. (110) 203)

Caspase-3; CPP32; Neuronal cell death; Program cell death; Site-directed antiserum (Urase, K. (111) 77)

Teleost; Retinal development; Embryonic retinogenesis; TUNEL (Hoke, K.L. (111) 143)

Cerebellar granule cells; Ethanol; NMDA; Carbachol; GABA (Castoldi, A.F. (111) 279)

Area 17
Monocular visual deprivation; Development; Lateral geniculate nucleus; Axons (Wu, C.W.-H. (108) 47)

A1 receptor
Adenosine receptor; Inhibition of neurite outgrowth; Nerve growth factor (Shaban, M. (105) 167)

L-arginine
Nitric oxide; Seizure; Status epilepticus; Development; N^G-nitro-L-arginine (Pereira de Vasconcelos, A. (107) 315)

Asphyxia
Cyclooxygenase; Cerebral cortex; Hippocampus; Cerebellum; Ischemia; Prostaglandin H synthase-1; Prostaglandin H synthase-2; Indomethacin; Nitric oxide synthase (Dégi, R. (107) 265)

Association area
Growth-associated protein; Primary sensory area; Monkey; Northern blotting (Oishi, T. (109) 87)

Astrocyte
Midkine; Cerebral infarction; Neurotrophic factor; Glial fibrillary acidic protein (Wang, S.-y. (106) 205)

Glia; Central auditory system; Immunohistochemistry (Burette, A. (107) 179)

Purkinje cell; Interneuron; Dentate nucleus; Zonal organization (Yan, X.-X. (111) 253)

Atrial natriuretic peptide
C-type natriuretic peptide; Neuronal development; Gene expression; In situ hybridization histochemistry; Olfactory nucleus; Habenula; Pontine nucleus (Ryan, M.C. (105) 251)

Atrophy and neuron loss
Age-at-lesion; Functional recovery; Neuroplasticity; Hemispherectomy (Villablanca, J.R. (105) 309)

Auditory
Thalamus; Medial geniculate body; Firing pattern (Tennigkeit, F. (109) 255)

Auditory cortex
Golgi–Cox; Somatosensory cortex; Stellate neuron; Visual cortex (Jarvinen, M.K. (107) 21)

Auditory development
Trapezoid body; Collagen-gel matrix; Cochlear nucleus; Floor plate; Netrin (Poe, B.H. (105) 153)

Autoimmune disorder
Neuronal differentiation; mRNA expression; In situ hybridization; RNA binding protein; Elavl4; Paraneoplastic disease; RNase protection assay (Clayton, G.H. (109) 271)

Autonomic development
VMAT2; VMAT1; VAChT; Chemical coding; Monoaminergic ontogeny (Schütz, B. (106) 181)

Autoradiography
Suprachiasmatic; Development; Dopamine; Circadian; Tyrosine hydroxylase; Hamsters (Strother, W.N. (106) 137)

Rat; Development; Opioid receptor; Spinal cord; Morphine; Electrophysiology (Rahman, W. (108) 239)

Caudate–putamen; Dopamine D_4 receptor; Frontal cortex; Hippocampus; Postnatal development (Tarazi, F.I. (110) 227)

Bird; Ontogeny; β1-Adrenoceptor; β2-Adrenoceptor; [^{3}H]CGP 12177 (Revilla, R. (111) 159)

Somatosensory cortex; Whisker; Lateral geniculate; Vibrissae; Cingulate cortex; In situ hybridization (Hansson, S.R. (111) 305)

AVP
CRH; ACTH; Cortisol; Adrenal; Adrenalectomy; Sheep; Fetus (Unno, N. (106) 119)

AxCam
Olfactory receptor; Olfactory neuron; Development; G-protein (Saito, H. (110) 69)

Axon
Brain-derived neurotrophic factor; Foliate papilla; Fungiform papilla; Mouse; Neurotrophin-3; Tongue (Oakley, B. (105) 85)

Axonal conduction
Superior colliculus; Optic nerve; Development; Evoked response; Neurotransmitter; Synaptic transmission (Reece, L.J. (106) 25)

Axonal outgrowth
Boundary molecule; Confocal microscopy; Immunohistochemistry; Olfactory nerve axotomy; Sea lamprey (Zaidi, A.U. (109) 157)

Axons
Monocular visual deprivation; Development; Lateral geniculate nucleus; Area 17 (Wu, C.W.-H. (108) 47)

Axotomy
Spinal cord; NMDA receptor; Glutamate receptor; Neonate; Apoptosis (Hughes, S. (105) 209)

B

Basal cell
Olfactory epithelium; Cell migration; Bulbectomy; Immunohistochemistry (Suzuki, Y. (108) 295)

Basal ganglia
Biogenic amines; Embryonal development; Subventricular zone; Sensory nuclei; Limbic system; Hypothalamus (Hansson, S.R. (110) 135)

BDNF
Neurotrophin; IGF-I; Differentiation; Gene expression; Mouse (Lin, X. (105) 277)

NT-3; TrkB; TrkC; Cerebellum; *Lurcher*; *Weaver*; RT-PCR; In situ histochemistry (Wüllner, U. (110) 1)

Bed nucleus of the accessory olfactory tract
Sex difference; Development; Vomeronasal system; Apoptosis; Stereology (Collado, P. (109) 99)

Behavior
Ovulation; Delay; Postnatal; Development; Brain (Kimler, B.F. (107) 49)

Bicuculline
Carbachol; Development; Epileptogenesis; Oxotremorine-M; McN-A-343 (Psarropoulou, C. (107) 285)

Binocular competition
Retinogeniculate development; Lateral geniculate nucleus (Garraghty, P.E. (107) 227)

Biocytin
AMPA; Development; GABA; NMDA; Somatosensory; Thalamus; Trigeminal; Vibrissa (Leamey, C.A. (105) 195)

Cell death; Development; Marsupial; Sensorimotor connection; Spinal reflex (Ho, S.M. (106) 79)

Biogenic amines
Embryonal development; Subventricular zone; Basal ganglia; Sensory nuclei; Limbic system; Hypothalamus (Hansson, S.R. (110) 135)

Dorsal root ganglia; Sympathetic ganglia; Heart; Gastrointestinal tract; Endocrine; Placenta (Hansson, S.R. (110) 159)

Bird
Ontogeny; Autoradiography; β1-Adrenoceptor; β2-Adrenoceptor; [^{3}H]CGP 12177 (Revilla, R. (111) 159)

Blood–brain barrier
Neuron; Neonatal brain damage (Vannucci, S.J. (107) 255)

Body weight regulation
Rat hypothalamus; Differentiation; Catecholamine; Tyrosine hydroxylase; Gestational diabetes (Plagemann, A. (109) 201)

Boundary molecule
Axonal outgrowth; Confocal microscopy; Immunohistochemistry; Olfactory nerve axotomy; Sea lamprey (Zaidi, A.U. (109) 157)

6B4 proteoglycan / phosphacan
L1; Mesencephalon; Dopamine neuron; Migration; NCAM-H (Ohyama, K. (107) 219)

Brain
Development; Heat-shock protein; Heme oxygenase; HSP32; Neonatal (Bergeron, M. (105) 181)

Somatostatin; Development; Frog; Immunohistochemistry (Vallarino, M. (106) 13)

Epidermal growth factor receptor; In situ hybridization; Protein gene product 9.5; Immunohistochemistry; Development (Misumi, Y. (107) 1)

Ovulation; Delay; Postnatal; Behavior; Development (Kimler, B.F. (107) 49)

Sp1; Development; Pb; Zinc; Finger; MBP; DNA-binding (Zawia, N.H. (107) 291)

Brain
CDP-diacylglycerol synthase; Phosphatidylinositol synthase; Retina; Rat; In situ hybridization histochemistry (Saito, S. (110) 21)

NO; Nitric oxide; Hypoxia; Vasodilation; Cerebrum; Fetal sheep (Aguan, K. (111) 271)

Brain damage
Development; Regeneration; Neuroepithelium; Cell kinetics (Oyanagi, K. (108) 229)

Development; Hypoxia–ischemia; Rat (Towfighi, J. (109) 169)

Brain-derived neurotrophic factor
Foliate papilla; Keratin 8; Knockout mouse; Nasopalate; NT3; Taste; TrkB; Vallate papilla (Cooper, D. (105) 79)

Axon; Foliate papilla; Fungiform papilla; Mouse; Neurotrophin-3; Tongue (Oakley, B. (105) 85)

Fetal alcohol syndrome; Neuroprotection; Hippocampus; Ciliary neurotrophic factor; Nerve growth factor; MTT (Mitchell, J.J. (105) 241)

Cell death; Target dependence; Fetal brain graft; Neurotrophin 4/5; Retinotectal pathway (Spalding, K.L. (107) 133)

Brain-2
Transcriptional regulatory region; Transgenic mice; Mouse embryo; Expression of *LacZ*; Olfactory epithelium (Hagino-Yamagishi, K. (109) 77)

Brain development
AChE; BuChE; Activity ratio; Neurochemistry; Histochemistry; Olfactory bulb; Hippocampus; Neocortex; Diencephalon; Mesencephalon; Cerebellum (Lassiter, T.L. (105) 109)

Neurotensin; Neonatal; Metabolite (Bennett, G.W. (111) 189)

Brain extract
Cultured chick skeletal muscle cell; Na^+ channel; Ca^{2+} channel; Development of electrical excitability; Influx of Ca^{2+} ion (Satoh, R. (110) 261)

Brainstem
Wasting disorder; Failure to thrive; Feeding; Food deprivation; Ontogeny; Gene expression; 5-Hydroxytryptamine (Jahng, J.W. (107) 241)

Brn-5
Mitogen; IGF-I; DNA synthesis; Differentiation; Mice (Cui, H. (106) 129)

Bromodeoxyuridine
NG108-15 cell line; Serum-free medium; Excitability; Patch-clamp; Neural protein; Neurotransmitter enzyme; Proliferation; Differentiation (Ma, W. (106) 155)

Cholineacetyltransferase; Patch; Matrix (Van Vulpen, E.H.S. (109) 51)

Pax-6; Forebrain; Genetic mutation (Brunjes, P.C. (110) 121)

BuChE
AChE; Activity ratio; Brain development; Neurochemistry; Histochemistry; Olfactory bulb; Hippocampus; Neocortex; Diencephalon; Mesencephalon; Cerebellum (Lassiter, T.L. (105) 109)

Bulbectomy
Olfactory epithelium; Cell migration; Basal cell; Immunohistochemistry (Suzuki, Y. (108) 295)

α-Bungarotoxin
Purkinje cell; Granule cell; Embryonic; Neurotransmitter; Development (Kaneko, W.M. (105) 141)

Buprenorphine
Opioid receptor; Cross-linking; Up-regulation; Down-regulation; mRNA expression (Belcheva, M.M. (111) 35)

BXSB mouse
Ectopia; Prefrontal cortex; Horizontal–vertical discrimination learning; Non-spatial learning; Long-term retention; Reference memory (Balogh, S.A. (111) 291)

C

CA1
Glucose deprivation; Ontogenesis; $[Ca^{2+}]_0$; Field potential; Hippocampal slice; Rat (Alici, K. (107) 71)

$[Ca^{2+}]_0$
Glucose deprivation; Ontogenesis; Field potential; CA1; Hippocampal slice; Rat (Alici, K. (107) 71)

CA1
I_{KNa}; I_C; Sustained potassium currents; Maturation; Hippocampus (Santos, A.I. (108) 13)

Afterdischarge; Ontogeny; CA3 (Stringer, J.L. (110) 97)

CA3
Afterdischarge; Ontogeny; CA1 (Stringer, J.L. (110) 97)

Ca^{2+}-binding proteins
Calbindin; Calmodulin; Immunohistochemistry; *Suncus*; Cochlea; Development (Nomiya, S. (110) 7)

Ca^{2+} channel
Cultured chick skeletal muscle cell; Brain extract; Na^+ channel; Development of electrical excitability; Influx of Ca^{2+} ion (Satoh, R. (110) 261)

Calbindin
Rat cerebellum; Morphometric analysis; Immunocytochemistry; Intracellular calcium store; R-type Ca^{2+} channel (Reitstetter, R. (107) 165)

Calmodulin; Ca^{2+}-binding proteins; Immunohistochemistry; *Suncus*; Cochlea; Development (Nomiya, S. (110) 7)

Calbindin D-28k
Septum; Culture; Cholinergic; GABAergic; Phenotype; Parvalbumin; Acetylcholinesterase (Murata, Y. (105) 1)

Calcitonin gene-related peptide
Efferent vestibular system; Development; Immunocytochemistry (Demêmes, D. (108) 59)

Calcium
Calcium-binding protein; Synaptophysin; Development; Pinealocyte; Glial cell; Immunocytochemistry; Multiple labeling (Redecker, P. (105) 43)

Cerebellum; Development; Fish; Parvalbumin; Purkinje cell (Porteros, A. (109) 221)

Calcium-binding protein
Calcium; Synaptophysin; Development; Pinealocyte; Glial cell; Immunocytochemistry; Multiple labeling (Redecker, P. (105) 43)

Neuronal markers; Postnatal development; Western blot; Immunohistochemistry; In situ hybridization; Roller tube culture (Sieg, F. (110) 83)

AII amacrine cell; Retina development; Rod pathway (Casini, G. (111) 107)

Calcium channel
Depolarization; Proliferation; Cerebellar granule cell; MAPK; Rat (Borodinsky, L.N. (107) 43)

Fibroblast growth factor; Hippocampus; Neural development (Katsuki, H. (111) 169)

Calcium concentration
End-bulbs of Held; Cochlear nucleus magnocellularis; Opioid peptides; Immunohistochemistry (Code, R.A. (106) 165)

Calcium-dependent K^+ channel
K_{Ca}; Development; Cerebellum; Cellular firing pattern; Tetraethylammonium (Muller, Y.L. (108) 193)

Calmodulin
Calbindin; Ca^{2+}-binding proteins; Immunohistochemistry; *Suncus*; Cochlea; Development (Nomiya, S. (110) 7)

Calretinin
Rat; DRG neuron; Immunohistochemistry; Immunoblotting (Ambrus, A. (106) 101)

CA1 neuron
Hypoxic injury; Hippocampus; Development; Glutamate; NMDA receptor; Intracellular calcium; Fura-2 (Bickler, P.E. (106) 57)

Carbachol
Bicuculline; Development; Epileptogenesis; Oxotremorine-M; McN-A-343 (Psarropoulou, C. (107) 285)

NGF antibodies; Acetylcholine; Slow EPSP; Development (Avignone, E. (109) 137)

Cerebellar granule cells; Ethanol; Apoptosis; NMDA; GABA (Castoldi, A.F. (111) 279)

Caspase-3
CPP32; Apoptosis; Neuronal cell death; Program cell death; Site-directed antiserum (Urase, K. (111) 77)

Cat
Neocortex; Thalamus; Developmental injury of brain (Schmanke, T.D. (105) 325)

D_2 dopamine receptor; Caudate-putamen; Age-at-lesion; Hemidecortication (Loopuijt, L.D. (107) 113)

TTX; Stellation; Macroglia (Gargini, C. (110) 177)

Catecholamine
Rat hypothalamus; Differentiation; Tyrosine hydroxylase; Gestational diabetes; Body weight regulation (Plagemann, A. (109) 201)

Caudate-putamen
D_2 dopamine receptor; Age-at-lesion; Hemidecortication; Cat (Loopuijt, L.D. (107) 113)

Autoradiography; Dopamine D_4 receptor; Frontal cortex; Hippocampus; Postnatal development (Tarazi, F.I. (110) 227)

CD68
Human fetal development; In situ hybridization; Immunocytochemistry; Microglia; Macrophages; Lectins; EBM-11 (Zečević, N. (105) 97)

CDP-diacylglycerol synthase
Phosphatidylinositol synthase; Brain; Retina; Rat; In situ hybridization histochemistry (Saito, S. (110) 21)

Cell calcium
Excitotoxicity; Development; Rat hippocampal neuron; Mouse cerebellar granule cell; Fura-2 (Adamec, E. (108) 101)

Cell–cell recognition
R-cognin; Protein disulfide isomerase; Neuronal differentiation; Chick embryo (Pariser, H.P. (111) 1)

Cell culture
Cell death; Cerebral cortex; Fetal alcohol syndrome; NGF; Receptor (Seabold, G.K. (108) 139)

Collagen; Developing cortex; Proliferation and differentiation; Rat (Ali, S.A. (110) 31)

Cell-cycle
Cyclin dependent kinase inhibitor protein; Cerebella (Watanabe, G. (108) 77)

Cell death
Biocytin; Development; Marsupial; Sensorimotor connection; Spinal reflex (Ho, S.M. (106) 79)

Target dependence; Fetal brain graft; Brain-derived neurotrophic factor; Neurotrophin 4/5; Retinotectal pathway (Spalding, K.L. (107) 133)

Cell culture; Cerebral cortex; Fetal alcohol syndrome; NGF; Receptor (Seabold, G.K. (108) 139)

Cell differentiation
Homeobox protein; Cell proliferation; Neural crest; Peripheral nervous system; Central nervous system (Xue, Z. (105) 59)

Cell kinetics
Development; Brain damage; Regeneration; Neuroepithelium (Oyanagi, K. (108) 229)

Cell migration
Olfactory epithelium; Basal cell; Bulbectomy; Immunohistochemistry (Suzuki, Y. (108) 295)

Cell proliferation
Homeobox protein; Cell differentiation; Neural crest; Peripheral nervous system; Central nervous system (Xue, Z. (105) 59)

Cellular firing pattern
Calcium-dependent K^+ channel; K_{Ca}; Development; Cerebellum; Tetraethylammonium (Muller, Y.L. (108) 193)

Central auditory system
Astrocyte; Glia; Immunohistochemistry (Burette, A. (107) 179)

Central gray
Development; Defensive response; Kainate; Excitatory amino acid; Heart rate; Ultrasonic vocalization; Rat (Goodwin, G.A. (107) 11)

Central nervous system
Homeobox protein; Cell proliferation; Cell differentiation; Neural crest; Peripheral nervous system (Xue, Z. (105) 59)

Homeobox genes; Ocular retardation; Visual pathway; Zebrafish; Development (Passini, M.A. (109) 129)

Central nervous system ontogeny
Congenital hypothyroidism; Proton magnetic resonance spectroscopy; Thyroxine; Myelination (Jagannathan, N.R. (109) 179)

Central pattern generator
Neonatal spinal cord; In vitro study; Motor rhythmicity; Mg^{2+}-free-induced activity; Excitatory amino acid (Bonnot, A. (108) 89)

Cerebella
Cell-cycle; Cyclin dependent kinase inhibitor protein (Watanabe, G. (108) 77)

Cerebellar granule cell
Depolarization; Proliferation; Calcium channel; MAPK; Rat (Borodinsky, L.N. (107) 43)

Prosaposin; Prosaptide; Neurotrophic factor; High potassium (Tsuboi, K. (110) 249)

Ethanol; Apoptosis; NMDA; Carbachol; GABA (Castoldi, A.F. (111) 279)

Cerebellar granule neuron progenitors
Proliferation; Mitogen; Insulin-like growth factor I; Phosphoinositide 3-kinase; Glycogen synthase kinase 3 (Cui, H. (111) 177)

Cerebellar layer
Nitric oxide synthase; NOS isoform; Microanalysis; nNOS mRNA; N^G-Nitro-L-arginine (Wang, W. (111) 65)

Cerebellum
AChE; BuChE; Activity ratio; Brain development; Neurochemistry; Histochemistry; Olfactory bulb; Hippocampus; Neocortex; Diencephalon; Mesencephalon (Lassiter, T.L. (105) 109)

Fetal alcohol syndrome; Development; Ethanol; Purkinje cell; Motor (Thomas, J.D. (105) 159)

Medulla oblongata; Retinoic acid catabolism; Cytochrome P450; Ketoconazole (Yamamoto, M. (107) 103)

Cyclooxygenase; Cerebral cortex; Hippocampus; Ischemia; Asphyxia; Prostaglandin H synthase-1; Prostaglandin H synthase-2; Indomethacin; Nitric oxide synthase (Dégi, R. (107) 265)

Calcium-dependent K^+ channel; K_{Ca}; Development; Cellular firing pattern; Tetraethylammonium (Muller, Y.L. (108) 193)

Aneuploidy; Murine trisomy 16; Down syndrome; Neuron cell culture; Abnormal neuronal filament (Bersu, E.T. (109) 115)

Calcium; Development; Fish; Parvalbumin; Purkinje cell (Porteros, A. (109) 221)

BDNF; NT-3; TrkB; TrkC; *Lurcher*; *Weaver*; RT-PCR; In situ histochemistry (Wüllner, U. (110) 1)

Cerebral cortex
Glutamate; Hypoxia; Microdialysis; Ovine fetus; Periventricular white matter (Henderson, J.L. (105) 287)

Acetate conditioning; DC potential; Development; Extracellular K^+ concentration; Ion-selective microelectrode; Spreading depression (Richter, F. (106) 217)

Cyclooxygenase; Hippocampus; Cerebellum; Ischemia; Asphyxia; Prostaglandin H synthase-1; Prostaglandin H synthase-2; Indomethacin; Nitric oxide synthase (Dégi, R. (107) 265)

Cell culture; Cell death; Fetal alcohol syndrome; NGF; Receptor (Seabold, G.K. (108) 139)

Cerebral glucose utilization
Absence epilepsy; 2-Deoxyglucose; Development (Nehlig, A. (108) 69)

Cerebral hemineodecortication
Neuroplasticity; Oxidative metabolism; Age-at-lesion effect; Recovery of function (Hovda, D.A. (110) 39)

Cerebral infarction
Midkine; Astrocytes; Neurotrophic factor; Glial fibrillary acidic protein (Wang, S.-y. (106) 205)

Cerebrum
NO; Nitric oxide; Hypoxia; Vasodilation; Brain; Fetal sheep (Aguan, K. (111) 271)

c-*fos*
Electroconvulsive shock; *jun*B; *TIS1*; *TIS8*; Hippocampus; Development (Jung, H.Y. (108) 303)

AP-1 binding protein; Dexamethasone; Prematurity (Slotkin, T.A. (111) 11)

CGS-19755
N-Methyl-D-aspartate (NMDA) receptor; Glutamate; Parvalbumin; Striatum; Interneuron; MK-801; Neurogenesis (Sadikot, A.F. (105) 35)

Chemical coding
VMAT2; VMAT1; VAChT; Autonomic development; Monoaminergic ontogeny (Schütz, B. (106) 181)

Chemosensory system
NADPH-diaphorase; *Monodelphis domestica* (Shapiro, L.S. (111) 51)

Chick embryo
R-cognin; Protein disulfide isomerase; Neuronal differentiation; Cell–cell recognition (Pariser, H.P. (111) 1)

Chloride
GABA; Development; Inhibition; Chloride homeostasis; $GABA_A$ function; RNase protection analysis; In situ hybridization histochemistry (Clayton, G.H. (109) 281)

Chloride channel
GABA; Depolarization; Ontogeny (Clayton, G.H. (108) 307)

Chloride homeostasis
GABA; Chloride; Development; Inhibition; $GABA_A$ function; RNase protection analysis; In situ hybridization histochemistry (Clayton, G.H. (109) 281)

Choline
Phosphatidylcholine; Phosphatidic acid; Myelination; Synaptogenesis; Oleic acid; Phosphatidylinositol-4,5-bisphosphate (Zhao, D. (109) 121)

Choline acetyltransferase
Septohippocampal cholinergic neurons; Hippocampus; Acetylcholine release; Presynaptic muscarinic autoreceptors; Postnatal development; High-affinity choline uptake (Goldbach, R. (108) 23)

Septohippocampal cholinergic neuron; Septum; Acetylcholine release; Presynaptic muscarinic autoreceptor; Postnatal development; High-affinity choline uptake (Disko, U. (108) 31)

Cholineacetyltransferase
Bromodeoxyuridine; Patch; Matrix (Van Vulpen, E.H.S. (109) 51)

Cholinergic
Septum; Culture; GABAergic; Phenotype; Calbindin D-28k; Parvalbumin; Acetylcholinesterase (Murata, Y. (105) 1)

Chronic prenatal ethanol exposure
Nitric oxide synthase; NADPH diaphorase; Pyramidal neuron; Hippocampus; Fetal guinea pig (Kimura, K.A. (106) 39)

Chronic sublethal hypoxia
Ventriculomegaly; External capsule; Corpus callosum (Ment, L.R. (111) 197)

Ciliary neurotrophic factor
Fetal alcohol syndrome; Neuroprotection; Hippocampus; Brain-derived neurotrophic factor; Nerve growth factor; MTT (Mitchell, J.J. (105) 241)

Cingulate cortex
Somatosensory cortex; Whisker; Lateral geniculate; Vibrissae; Autoradiography; In situ hybridization (Hansson, S.R. (111) 305)

Circadian
Suprachiasmatic; Development; Dopamine; Tyrosine hydroxylase; Autoradiography; Hamsters (Strother, W.N. (106) 137)

Apoptosis; Neuronal death; Retinohypothalamic; Stereological; Suprachiasmatic (Müller, C. (110) 203)

Circadian rhythms
In situ hybridization; HIOMT; Melatonin; Pineal; Postnatal development; Rat (Ribelayga, C. (110) 235)

Citalopram
Cyanopindolol; Dimethoxy-4-iodophenyl-2-aminopropane; $5\text{-}HT_{1B}$; $5\text{-}HT_{2A}$; Ligand binding autoradiography (Mansour-Robaey, S. (107) 159)

Claustrum
Cortical pattern formation; Protomap; Slice culture; Neocortex; Endopiriform nuclei (Arimatsu, Y. (106) 71)

CNS development
HB-EGF; Neuron; Interfascicular oligodendrocyte; In situ hybridization; Immunohistochemistry (Nakagawa, T. (108) 263)

Cocaine
Teratology; Neurodevelopment; Neuron; Methadone (Nassogne, M.-C. (110) 61)

Amino acid receptor; GABA; Glutamate; Hippocampus; Inhibition; Development (Little, J.Z. (110) 115)

Cochlea
Calbindin; Calmodulin; Ca^{2+}-binding proteins; Immunohistochemistry; *Suncus*; Development (Nomiya, S. (110) 7)

Cochlear nucleus
Trapezoid body; Auditory development; Collagen-gel matrix; Floor plate; Netrin (Poe, B.H. (105) 153)

Cochlear nucleus magnocellularis
End-bulbs of Held; Opioid peptides; Immunohistochemistry; Calcium concentration (Code, R.A. (106) 165)

Collagen
Developing cortex; Proliferation and differentiation; Rat; Cell culture (Ali, S.A. (110) 31)

Collagen-gel matrix
Trapezoid body; Auditory development; Cochlear nucleus; Floor plate; Netrin (Poe, B.H. (105) 153)

Cone photoreceptor
Retina; Development; Teleost; Rod photoreceptor; Müller cell; GABA; Vimentin (Hagedorn, M. (108) 217)

Confocal microscopy
Axonal outgrowth; Boundary molecule; Immunohistochemistry; Olfactory nerve axotomy; Sea lamprey (Zaidi, A.U. (109) 157)

Congenital hypothyroidism
Proton magnetic resonance spectroscopy; Central nervous system ontogeny; Thyroxine; Myelination (Jagannathan, N.R. (109) 179)

Corpus callosum
Ventriculomegaly; Chronic sublethal hypoxia; External capsule (Ment, L.R. (111) 197)

Cortex
Dopamine or dopaminergic; Fetal brain development or ontogeny; Neuronal differentiation; Neurotransmitter receptor; Striatum; Forebrain (Unis, A.S. (106) 109)

Neuronal; Nicotinic; Hippocampus; Septum; Development (Shacka, J.J. (109) 67)

Cortical development
Anesthesia; Hypothermia; Neuron number; Sex differences; Stereology (Nuñez, J.L. (111) 89)

Cortical dysgenesis
Ectopia; Excitotoxicity; Ibotenate; Migration; Microgyrus (Redecker, C. (109) 109)

Cortical neuron
Primary culture; Synapse formation; Drebrin; Alternative splicing (Hayashi, K. (111) 137)

Cortical pattern formation
Protomap; Slice culture; Neocortex; Claustrum; Endopiriform nuclei (Arimatsu, Y. (106) 71)

Corticosteroid binding globulin
Stress; Corticosterone; Mineralocorticoid receptor; Glucocorticoid receptor; Androgen; Estrogen; Sexual differentiation (McCormick, C.M. (105) 295)

Corticosterone
Stress; Corticosteroid binding globulin; Mineralocorticoid receptor; Glucocorticoid receptor; Androgen; Estrogen; Sexual differentiation (McCormick, C.M. (105) 295)

Corticotropin releasing factor
Receptor; Ventromedial hypothalamus; Ontogeny; Neuroendocrine; Rat (Eghbal-Ahmadi, M. (107) 81)

Corticotropin releasing hormone
Glutamate receptors; Seizure; Rat (Brunson, K.L. (111) 119)

Cortisol
CRH; AVP; ACTH; Adrenal; Adrenalectomy; Sheep; Fetus (Unno, N. (106) 119)

CPP32
Caspase-3; Apoptosis; Neuronal cell death; Program cell death; Site-directed antiserum (Urase, K. (111) 77)

Crayfish
Crustacea; Embryonic development; GABA; Glutamate; Immunohistochemistry; Neurotransmitter (Foa, L.C. (107) 33)

CRH
AVP; ACTH; Cortisol; Adrenal; Adrenalectomy; Sheep; Fetus (Unno, N. (106) 119)

Cross-linking
Opioid receptor; Buprenorphine; Up-regulation; Down-regulation; mRNA expression (Belcheva, M.M. (111) 35)

Crustacea
Crayfish; Embryonic development; GABA; Glutamate; Immunohistochemistry; Neurotransmitter (Foa, L.C. (107) 33)

C-type natriuretic peptide
Atrial natriuretic peptide; Neuronal development; Gene expression; In situ hybridization histochemistry; Olfactory nucleus; Habenula; Pontine nucleus (Ryan, M.C. (105) 251)

Culture
Septum; Cholinergic; GABAergic; Phenotype; Calbindin D-28k; Parvalbumin; Acetylcholinesterase (Murata, Y. (105) 1)

Cultured chick skeletal muscle cell
Brain extract; Na^+ channel; Ca^{2+} channel; Development of electrical excitability; Influx of Ca^{2+} ion (Satoh, R. (110) 261)

Cyanopindolol
Citalopram; Dimethoxy-4-iodophenyl-2-aminopropane; 5-HT_{1B}; 5-HT_{2A}; Ligand binding autoradiography (Mansour-Robaey, S. (107) 159)

Cyclin dependent kinase inhibitor protein
Cell-cycle; Cerebella (Watanabe, G. (108) 77)

Cyclooxygenase
Stress protein; Parietal cortex; Hippocampus; Neonate; Morphology (Beasley, T.C. (105) 125)

Cerebral cortex; Hippocampus; Cerebellum; Ischemia; Asphyxia; Prostaglandin H synthase-1; Prostaglandin H synthase-2; Indomethacin; Nitric oxide synthase (Dégi, R. (107) 265)

Cytisine
Epibatidine; Human brain; Development; mRNA: Nicotinic receptor (Hellström-Lindahl, E. (108) 147)

Cytochrome P450
Cerebellum; Medulla oblongata; Retinoic acid catabolism; Ketoconazole (Yamamoto, M. (107) 103)

Cytoskeleton
Ganglioside; Neuronal morphology; MAP; Microtubule; Actin filament (Wang, L.-J. (105) 227)

D

Dantrolene sodium
Excitation–contraction coupling; Muscle force; Acetylcholine sensitivity; Development (Greensmith, L. (110) 131)

DC potential
Acetate conditioning; Cerebral cortex; Development; Extracellular K^+ concentration; Ion-selective microelectrode; Spreading depression (Richter, F. (106) 217)

D_2 dopamine receptor
Caudate-putamen; Age-at-lesion; Hemidecortication; Cat (Loopuijt, L.D. (107) 113)

Defensive response
Central gray; Development; Kainate; Excitatory amino acid; Heart rate; Ultrasonic vocalization; Rat (Goodwin, G.A. (107) 11)

Degeneration
Photoreceptor cell inner and outer segment; Trophic factor; Opsin; Neurite (Sheedlo, H.J. (107) 57)

Delay
Ovulation; Postnatal; Behavior; Development; Brain (Kimler, B.F. (107) 49)

Delta
Development; Mu; Kappa; Opioid receptor; Striatal compartment (Georges, F. (109) 187)

Dendrites
Sphingolipids; Fumonisin B_1; Minor processes (Schwarz, A. (108) 125)

Dentate gyrus
Granule cell; Mossy cell; Synapse formation; Glutamate; GABA; Organotypic culture (Werner, M. (105) 9)

NADPH-diaphorase; Nitric oxide; Hippocampus; Aging; Rat (Vaid, R.R. (107) 207)

Dentate nucleus
Purkinje cell; Interneuron; Astrocyte; Zonal organization (Yan, X.-X. (111) 253)

2-Deoxyglucose
Absence epilepsy; Cerebral glucose utilization; Development (Nehlig, A. (108) 69)

Depolarization
Proliferation; Cerebellar granule cell; Calcium channel; MAPK; Rat (Borodinsky, L.N. (107) 43)

Neuronal morphogenesis; Growth cones; Neurite outgrowth and branching; Electric activity (Ramakers, G.J.A. (108) 205)

Chloride channel; GABA; Ontogeny (Clayton, G.H. (108) 307)

Developing cortex
Collagen; Proliferation and differentiation; Rat; Cell culture (Ali, S.A. (110) 31)

Developing rat
Transsynaptic cell death; Substantia nigra pars reticulata; Subthalamic nucleus; Striatum; Globus pallidus; Fos expression; Ibotenic acid lesion (Yoshimura, M. (105) 25)

Development
Calcium; Calcium-binding protein; Synaptophysin; Pinealocyte; Glial cell; Immunocytochemistry; Multiple labeling (Redecker, P. (105) 43)

Hippocampus; Adenosine; Excitatory postsynaptic potential; Presynaptic (Dumas, T.C. (105) 137)

α-Bungarotoxin; Purkinje cell; Granule cell; Embryonic; Neurotransmitter (Kaneko, W.M. (105) 141)

Fetal alcohol syndrome; Cerebellum; Ethanol; Purkinje cell; Motor (Thomas, J.D. (105) 159)

Brain; Heat-shock protein; Heme oxygenase; HSP32; Neonatal (Bergeron, M. (105) 181)

AMPA; Biocytin; GABA; NMDA; Somatosensory; Thalamus; Trigeminal; Vibrissa (Leamey, C.A. (105) 195)

Somatostatin; Brain; Frog; Immunohistochemistry (Vallarino, M. (106) 13)

Superior colliculus; Optic nerve; Evoked response; Neurotransmitter; Synaptic transmission; Axonal conduction (Reece, L.J. (106) 25)

Locomotion; Neuropeptide; Motor neuron; In vitro; Immunohistochemistry (Carr, P.A. (106) 47)

Hypoxic injury; CA1 neuron; Hippocampus; Glutamate; NMDA receptor; Intracellular calcium; Fura-2 (Bickler, P.E. (106) 57)

Biocytin; Cell death; Marsupial; Sensorimotor connection; Spinal reflex (Ho, S.M. (106) 79)

Suprachiasmatic; Dopamine; Circadian; Tyrosine hydroxylase; Autoradiography; Hamsters (Strother, W.N. (106) 137)

Acetate conditioning; Cerebral cortex; DC potential; Extracellular K^+ concentration; Ion-selective microelectrode; Spreading depression (Richter, F. (106) 217)

Epidermal growth factor receptor; In situ hybridization; Protein gene product 9.5; Immunohistochemistry; Brain (Misumi, Y. (107) 1)

Central gray; Defensive response; Kainate; Excitatory amino acid; Heart rate; Ultrasonic vocalization; Rat (Goodwin, G.A. (107) 11)

Ovulation; Delay; Postnatal; Behavior; Brain (Kimler, B.F. (107) 49)

Mineralocorticoid receptor; Glucocorticoid receptor; Limbic system; Hypothalamus; Guinea pig (Matthews, S.G. (107) 123)

Seizure; Hippocampus; Sprouting; Timm staining; GAP-43; Kainic acid (Yang, Y. (107) 169)

G-proteins; G_z α subunit; Quantitative RT-PCR; mRNA; Mouse nervous system (Kelleher, K.L. (107) 247)

Bicuculline; Carbachol; Epileptogenesis; Oxotremorine-M; McN-A-343 (Psarropoulou, C. (107) 285)

Sp1; Pb; Brain; Zinc; Finger; MBP; DNA-binding (Zawia, N.H. (107) 291)

Melanocortin-4-receptor; Pro-opiomelanocortin (POMC); Melanocyte-stimulating hormone (Mountjoy, K.G. (107) 309)

Nitric oxide; Seizure; Status epilepticus; L-arginine; N^G-nitro-L-arginine (Pereira de Vasconcelos, A. (107) 315)

Masseter; Trigeminal; Mesencephalic; Motor; Mouse; Masticatory muscle; Teeth; Periodontium (Widmer, C.G. (108) 1)

Monocular visual deprivation; Lateral geniculate nucleus; Area 17; Axons (Wu, C.W.-H. (108) 47)

Calcitonin gene-related peptide; Efferent vestibular system; Immunocytochemistry (Demêmes, D. (108) 59)

Absence epilepsy; 2-Deoxyglucose; Cerebral glucose utilization (Nehlig, A. (108) 69)

Excitotoxicity; Cell calcium; Rat hippocampal neuron; Mouse cerebellar granule cell; Fura-2 (Adamec, E. (108) 101)

Cytisine; Epibatidine; Human brain; mRNA; Nicotinic receptor (Hellström-Lindahl, E. (108) 147)

Calcium-dependent K^+ channel; K_{Ca}; Cerebellum; Cellular firing pattern; Tetraethylammonium (Muller, Y.L. (108) 193)

Retina; Teleost; Cone photoreceptor; Rod photoreceptor; Müller cell; GABA; Vimentin (Hagedorn, M. (108) 217)

Brain damage; Regeneration; Neuroepithelium; Cell kinetics (Oyanagi, K. (108) 229)

Rat; Opioid receptor; Spinal cord; Autoradiography; Morphine; Electrophysiology (Rahman, W. (108) 239)

Membrane property; Action potential; Rectification; Postsynaptic potential (Sakata, Y. (108) 255)

Optic nerve; Retinotectal pathway; GABA; Rat (Lim, C.H. (108) 299)

Electroconvulsive shock; c-*fos*; *jun*B; *TIS1*; *TIS8*; Hippocampus (Jung, H.Y. (108) 303)

Neuronal; Nicotinic; Hippocampus; Cortex; Septum (Shacka, J.J. (109) 67)

Bed nucleus of the accessory olfactory tract; Sex difference; Vomeronasal system; Apoptosis; Stereology (Collado, P. (109) 99)

Homeobox genes; Ocular retardation; Visual pathway; Central nervous system; Zebrafish (Passini, M.A. (109) 129)

NGF antibodies; Acetylcholine; Slow EPSP; Carbachol (Avignone, E. (109) 137)

Partial denervation; Motor unit; L-Dopa (Tyč, F. (109) 149)

Brain damage; Hypoxia–ischemia; Rat (Towfighi, J. (109) 169)

Mu; Delta; Kappa; Opioid receptor; Striatal compartment (Georges, F. (109) 187)

NMDA receptor subunit; Antagonist; Supersensitivity; Neurotoxicity (Wilson, M.A. (109) 211)

Calcium; Cerebellum; Fish; Parvalbumin; Purkinje cell (Porteros, A. (109) 221)

Glycosaminoglycan; Immunohistochemistry; Dopamine (Charvet, I. (109) 229)

PACAP; Receptor; Mouse; Embryo (Sheward, W.J. (109) 245)

GABA; Chloride; Inhibition; Chloride homeostasis; $GABA_A$ function; RNase protection analysis; In situ hybridization histochemistry (Clayton, G.H. (109) 281)

Calbindin; Calmodulin; Ca^{2+}-binding proteins; Immunohistochemistry; *Suncus*; Cochlea (Nomiya, S. (110) 7)

Adenosine; Hippocampus; Synaptic inhibition; Rat (Descombes, S. (110) 51)

Olfactory receptor; Olfactory neuron; G-protein; AxCam (Saito, H. (110) 69)

Amino acid receptor; Cocaine; GABA; Glutamate; Hippocampus; Inhibition (Little, J.Z. (110) 115)

δ-Opioid receptor blockade; Naltrindole; Stress-induced-antinociception; Alfentanil; μ–δ-Receptor interaction (Antelo, Ma.T. (110) 127)

Dantrolene sodium; Excitation–contraction coupling; Muscle force; Acetylcholine sensitivity (Greensmith, L. (110) 131)

Nitric oxide; Neuronal nitric oxide synthase; Immunohistochemistry; Human brain (Ohyu, J. (110) 193)

Gene expression; Homeobox; Retinoic acid (Lindberg, C. (110) 215)

Acetylcholine release; Amphetamine; Dopamine; Striatum (Bolanos, C.A. (111) 25)

Gonadotropin-releasing hormone; LHRH; Thalamus; Habenula (Gill, C.J. (111) 129)

Hypergravity; Monoaminergic projection; Rat spinal cord (Giménez y Ribotta, M. (111) 147)

Neuronal nitric oxide synthase; nNOS; Embryo; Rat (Santacana, M. (111) 205)

Developmental change of enzyme activity
Nitric oxide synthase; Intrauterine hypoxia–ischemia; RT-PCR; Immunoblotting (Cai, Z. (109) 265)

Developmental injury of brain
Neocortex; Thalamus; Cat (Schmanke, T.D. (105) 325)

Developmental neurotoxicology
Nerve Growth Factor receptor; NGF; Protein phosphorylation; *trk*; Tropomyosin receptor kinase (Barone Jr., S. (109) 13)

Protein kinase C; Protein phosphorylation (Haykal-Coates, N. (109) 33)

Development of electrical excitability
Cultured chick skeletal muscle cell; Brain extract; Na^+ channel; Ca^{2+} channel; Influx of Ca^{2+} ion (Satoh, R. (110) 261)

Dexamethasone
AP-1 binding protein; c-*fos*; Prematurity (Slotkin, T.A. (111) 11)

Diazepam
3α,5β-THP; Androsterone; Neural organization; GABA-mediated chloride uptake (Kellogg, C.K. (108) 131)

Diencephalon
AChE; BuChE; Activity ratio; Brain development; Neurochemistry; Histochemistry; Olfactory bulb; Hippocampus; Neocortex; Mesencephalon; Cerebellum (Lassiter, T.L. (105) 109)

Differentiation
BDNF; Neurotrophin; IGF-I; Gene expression; Mouse (Lin, X. (105) 277)

RT4; Neuroblastoma; Neural crest; Peripheral nervous system; MASH1; REST/NRSF (Donahue, L.M. (106) 1)

Mitogen; IGF-I; DNA synthesis; Brn-5; Mice (Cui, H. (106) 129)

NG108-15 cell line; Serum-free medium; Excitability; Patch-clamp; Neural protein; Neurotransmitter enzyme; Bromodeoxyuridine; Proliferation (Ma, W. (106) 155)

Rat hypothalamus; Catecholamine; Tyrosine hydroxylase; Gestational diabetes; Body weight regulation (Plagemann, A. (109) 201)

Nerve growth factor; Somatostatin; Neurofilament; Pertussis toxin; Protein kinase (Traina, G. (111) 223)

Dimethoxy-4-iodophenyl-2-aminopropane
Citalopram; Cyanopindolol; 5-HT_{1B}; 5-HT_{2A}; Ligand binding autoradiography (Mansour-Robaey, S. (107) 159)

DNA-binding
Sp1; Development; Pb; Brain; Zinc; Finger; MBP (Zawia, N.H. (107) 291)

DNA synthesis
Mitogen; IGF-I; Differentiation; Brn-5; Mice (Cui, H. (106) 129)

L-Dopa
Partial denervation; Motor unit; Development (Tyč, F. (109) 149)

Dopamine
Suprachiasmatic; Development; Circadian; Tyrosine hydroxylase; Autoradiography; Hamsters (Strother, W.N. (106) 137)

Glycosaminoglycan; Immunohistochemistry; Development (Charvet, I. (109) 229)

Acetylcholine release; Amphetamine; Development; Striatum (Bolanos, C.A. (111) 25)

Dopamine D_4 receptor
Autoradiography; Caudate–putamen; Frontal cortex; Hippocampus; Postnatal development (Tarazi, F.I. (110) 227)

Dopamine neuron
L1; 6B4 proteoglycan/phosphacan; Mesencephalon; Migration; NCAM-H (Ohyama, K. (107) 219)

Dopamine or dopaminergic
Fetal brain development or ontogeny; Neuronal differentiation; Neurotransmitter receptor; Cortex; Striatum; Forebrain (Unis, A.S. (106) 109)

Dopaminergic neuron
Neural Transplantation; Neuroglia; Ventral mesencephalon; Parkinson's disease (Quintana, J.G. (105) 147)

Dopamine transporter
Mesolimbic; D2 receptor; 6-Hydroxydopamine; Nigrostriatal (Thomas, W.S. (111) 99)

Dorsal root ganglia
Biogenic amines; Sympathetic ganglia; Heart; Gastrointestinal tract; Endocrine; Placenta (Hansson, S.R. (110) 159)

Down-regulation
Opioid receptor; Buprenorphine; Cross-linking; Up-regulation; mRNA expression (Belcheva, M.M. (111) 35)

Down syndrome
Aneuploidy; Murine trisomy 16; Cerebellum; Neuron cell culture; Abnormal neuronal filament (Bersu, E.T. (109) 115)

Drebrin
Primary culture; Synapse formation; Alternative splicing; Cortical neuron (Hayashi, K. (111) 137)

D2 receptor
Mesolimbic; Dopamine transporter; 6-Hydroxydopamine; Nigrostriatal (Thomas, W.S. (111) 99)

DRG neuron
Rat; Calretinin; Immunohistochemistry; Immunoblotting (Ambrus, A. (106) 101)

Dystroglycan
Agrin receptor; Synaptogenesis; Neuromuscular junction (Deyst, K.A. (110) 185)

E

EBM-11
Human fetal development; In situ hybridization; Immunocytochemistry; Microglia; Macrophages; Lectins; CD68 (Zečević, N. (105) 97)

Ectopia
Cortical dysgenesis; Excitotoxicity; Ibotenate; Migration; Microgyrus (Redecker, C. (109) 109)

Prefrontal cortex; BXSB mouse; Horizontal–vertical discrimination learning; Non-spatial learning; Long-term retention; Reference memory (Balogh, S.A. (111) 291)

Efferent vestibular system
Calcitonin gene-related peptide; Development; Immunocytochemistry (Demêmes, D. (108) 59)

Elavl4
Neuronal differentiation; Autoimmune disorder; mRNA expression; In situ hybridization; RNA binding protein; Paraneoplastic disease; RNase protection assay (Clayton, G.H. (109) 271)

Electric activity
Neuronal morphogenesis; Growth cones; Depolarization; Neurite outgrowth and branching (Ramakers, G.J.A. (108) 205)

Electroconvulsive shock
c-*fos*; *jun*B; *TIS1*; *TIS8*; Hippocampus; Development (Jung, H.Y. (108) 303)

Electron microscopy
Glucocorticoid; Glucocorticoid receptor; Immunohistochemistry; Vimentin (Trejo, J.L. (108) 161)

Hypoglossal nucleus; Synaptogenesis; Synapse elimination; Postnatal development; Morphometry (O'Kusky, J.R. (108) 179)

Electrophysiology
Rat; Development; Opioid receptor; Spinal cord; Autoradiography; Morphine (Rahman, W. (108) 239)

Embryo
PACAP; Receptor; Development; Mouse (Sheward, W.J. (109) 245)

Neuronal nitric oxide synthase; nNOS; Development; Rat (Santacana, M. (111) 205)

Embryonal development
Biogenic amines; Subventricular zone; Basal ganglia; Sensory nuclei; Limbic system; Hypothalamus (Hansson, S.R. (110) 135)

Embryonic
α-Bungarotoxin; Purkinje cell; Granule cell; Neurotransmitter; Development (Kaneko, W.M. (105) 141)

Embryonic development
Crustacea; Crayfish; GABA; Glutamate; Immunohistochemistry; Neurotransmitter (Foa, L.C. (107) 33)

Embryonic retinogenesis
Apoptosis; Teleost; Retinal development; TUNEL (Hoke, K.L. (111) 143)

End-bulbs of Held
Cochlear nucleus magnocellularis; Opioid peptides; Immunohistochemistry; Calcium concentration (Code, R.A. (106) 165)

Endocrine
Biogenic amines; Dorsal root ganglia; Sympathetic ganglia; Heart; Gastrointestinal tract; Placenta (Hansson, S.R. (110) 159)

Endopiriform nuclei
Cortical pattern formation; Protomap; Slice culture; Neocortex; Claustrum (Arimatsu, Y. (106) 71)

Energy metabolism
Glutamate; Hippocampal slice; Ischemia; Long-term incubation; Mild hypothermia; Ontogeny; Protein synthesis rate (Berger, R. (105) 67)

Environmental enrichment
Nicotinamide adenine dinucleotide phosphate-diaphorase neuron; Persistence; Histogenetic gradient; Somatosensory cortex; Rat (Fernández, V. (107) 299)

Epibatidine
Cytisine; Human brain; Development; mRNA; Nicotinic receptor (Hellström-Lindahl, E. (108) 147)

Epidermal growth factor receptor
In situ hybridization; Protein gene product 9.5; Immunohistochemistry; Development; Brain (Misumi, Y. (107) 1)

Epileptogenesis
Bicuculline; Carbachol; Development; Oxotremorine-M; McN-A-343 (Psarropoulou, C. (107) 285)

Estrogen
Stress; Corticosterone; Corticosteroid binding globulin; Mineralocorticoid receptor; Glucocorticoid receptor; Androgen; Sexual differentiation (McCormick, C.M. (105) 295)

Ethanol
Fetal alcohol syndrome; Cerebellum; Development; Purkinje cell; Motor (Thomas, J.D. (105) 159)

Cerebellar granule cells; Apoptosis; NMDA; Carbachol; GABA (Castoldi, A.F. (111) 279)

Evoked postsynaptic current
Self-assembled monolayer; Synaptogenesis; Synapsin I; Spontaneous postsynaptic current (Ma, W. (111) 231)

Evoked response
Superior colliculus; Optic nerve; Development; Neurotransmitter; Synaptic transmission; Axonal conduction (Reece, L.J. (106) 25)

Excitability
NG108-15 cell line; Serum-free medium; Patch-clamp; Neural protein; Neurotransmitter enzyme; Bromodeoxyuridine; Proliferation; Differentiation (Ma, W. (106) 155)

Excitation–contraction coupling
Dantrolene sodium; Muscle force; Acetylcholine sensitivity; Development (Greensmith, L. (110) 131)

Excitatory amino acid
NMDA; Gonadotropins; GABA; Serotonin (Scacchi, P. (105) 51)

Central gray; Development; Defensive response; Kainate; Heart rate; Ultrasonic vocalization; Rat (Goodwin, G.A. (107) 11)

Central pattern generator; Neonatal spinal cord; In vitro study; Motor rhythmicity; Mg^{2+}-free-induced activity (Bonnot, A. (108) 89)

Excitatory amino acid receptor
Tectum; Plasticity; Glutamate; AP5; Visual deprivation; Iontophoresis (Binns, K.E. (110) 241)

Excitatory postsynaptic potential
Hippocampus; Development; Adenosine; Presynaptic (Dumas, T.C. (105) 137)

Excitotoxicity
Development; Cell calcium; Rat hippocampal neuron; Mouse cerebellar granule cell; Fura-2 (Adamec, E. (108) 101)

Cortical dysgenesis; Ectopia; Ibotenate; Migration; Microgyrus (Redecker, C. (109) 109)

Expression of *LacZ*
Brain-2; Transcriptional regulatory region; Transgenic mice; Mouse embryo; Olfactory epithelium (Hagino-Yamagishi, K. (109) 77)

External capsule
Ventriculomegaly; Chronic sublethal hypoxia; Corpus callosum (Ment, L.R. (111) 197)

Extracellular K^+ concentration
Acetate conditioning; Cerebral cortex; DC potential; Development; Ion-selective microelectrode; Spreading depression (Richter, F. (106) 217)

F

Failure to thrive
Wasting disorder; Feeding; Food deprivation; Ontogeny; Gene expression; Brainstem; 5-Hydroxytryptamine (Jahng, J.W. (107) 241)

Feeding
Wasting disorder; Failure to thrive; Food deprivation; Ontogeny; Gene expression; Brainstem; 5-Hydroxytryptamine (Jahng, J.W. (107) 241)

Fentanyl
Neonatal; Rat; Opioid; Anti-nociception; Analgesia; Morphine; Meperidine (Thornton, S.R. (105) 269)

Fetal alcohol syndrome
Cerebellum; Development; Ethanol; Purkinje cell; Motor (Thomas, J.D. (105) 159)

Neuroprotection; Hippocampus; Brain-derived neurotrophic factor; Ciliary neurotrophic factor; Nerve growth factor; MTT (Mitchell, J.J. (105) 241)

Cell culture; Cell death; Cerebral cortex; NGF; Receptor (Seabold, G.K. (108) 139)

Fetal brain development or ontogeny
Dopamine or dopaminergic; Neuronal differentiation; Neurotransmitter receptor; Cortex; Striatum; Forebrain (Unis, A.S. (106) 109)

Fetal brain graft
Cell death; Target dependence; Brain-derived neurotrophic factor; Neurotrophin 4/5; Retinotectal pathway (Spalding, K.L. (107) 133)

Fetal guinea pig
Nitric oxide synthase; NADPH diaphorase; Pyramidal neuron; Hippocampus; Chronic prenatal ethanol exposure (Kimura, K.A. (106) 39)

Fetal sheep
NO; Nitric oxide; Hypoxia; Vasodilation; Cerebrum; Brain (Aguan, K. (111) 271)

Fetus
CRH; AVP; ACTH; Cortisol; Adrenal; Adrenalectomy; Sheep (Unno, N. (106) 119)

Fibroblast growth factor
Calcium channels; Hippocampus; Neural development (Katsuki, H. (111) 169)

Field potential
Glucose deprivation; Ontogenesis; $[Ca^{2+}]_0$; CA1; Hippocampal slice; Rat (Alici, K. (107) 71)

Finger
Sp1; Development; Pb; Brain; Zinc; MBP; DNA-binding (Zawia, N.H. (107) 291)

Firing pattern
Thalamus; Medial geniculate body; Auditory (Tennigkeit, F. (109) 255)

Fish
Calcium; Cerebellum; Development; Parvalbumin; Purkinje cell (Porteros, A. (109) 221)

Floor plate
Trapezoid body; Auditory development; Collagen-gel matrix; Cochlear nucleus; Netrin (Poe, B.H. (105) 153)

Foliate papilla
Brain-derived neurotrophic factor; Keratin 8; Knockout mouse; Nasopalate; NT3; Taste; TrkB; Vallate papilla (Cooper, D. (105) 79)

Axon; Brain-derived neurotrophic factor; Fungiform papilla; Mouse; Neurotrophin-3; Tongue (Oakley, B. (105) 85)

Food deprivation
Wasting disorder; Failure to thrive; Feeding; Ontogeny; Gene expression; Brainstem; 5-Hydroxytryptamine (Jahng, J.W. (107) 241)

Forebrain
Dopamine or dopaminergic; Fetal brain development or ontogeny; Neuronal differentiation; Neurotransmitter receptor; Cortex; Striatum (Unis, A.S. (106) 109)

Pax-6; Bromodeoxyuridine; Genetic mutation (Brunjes, P.C. (110) 121)

Fos expression
Transsynaptic cell death; Developing rat; Substantia nigra pars reticulata; Subthalamic nucleus; Striatum; Globus pallidus; Ibotenic acid lesion (Yoshimura, M. (105) 25)

Frog
Somatostatin; Development; Brain; Immunohistochemistry (Vallarino, M. (106) 13)

Frontal cortex
Autoradiography; Caudate–putamen; Dopamine D_4 receptor; Hippocampus; Postnatal development (Tarazi, F.I. (110) 227)

Fumonisin B_1
Sphingolipids; Dendrites; Minor processes (Schwarz, A. (108) 125)

Functional recovery
Age-at-lesion; Atrophy and neuron loss; Neuroplasticity; Hemispherectomy (Villablanca, J.R. (105) 309)

Fungiform papilla
Axon; Brain-derived neurotrophic factor; Foliate papilla; Mouse; Neurotrophin-3; Tongue (Oakley, B. (105) 85)

Fura-2
Hypoxic injury; CA1 neuron; Hippocampus; Development; Glutamate; NMDA receptor; Intracellular calcium (Bickler, P.E. (106) 57)

Excitotoxicity; Development; Cell calcium; Rat hippocampal neuron; Mouse cerebellar granule cell (Adamec, E. (108) 101)

Fusimotor innervation
Neurotrophin-3; Growth factor; Muscle spindle; Transgenic mice; Proprioception (Ringstedt, T. (111) 295)

G

GABA
Dentate gyrus; Granule cell; Mossy cell; Synapse formation; Glutamate; Organotypic culture (Werner, M. (105) 9)

NMDA; Excitatory amino acids; Gonadotropins; Serotonin (Scacchi, P. (105) 51)

AMPA; Biocytin; Development; NMDA; Somatosensory; Thalamus; Trigeminal; Vibrissa (Leamey, C.A. (105) 195)

Inhibitory interneuron; Apoptosis; Muscimol; Rat telencephalon; Aggregate cell culture (Honegger, P. (105) 219)

Crustacea; Crayfish; Embryonic development; Glutamate; Immunohistochemistry; Neurotransmitter (Foa, L.C. (107) 33)

Retina; Development; Teleost; Cone photoreceptor; Rod photoreceptor; Müller cell; Vimentin (Hagedorn, M. (108) 217)

Development; Optic nerve; Retinotectal pathway; Rat (Lim, C.H. (108) 299)

Chloride channel; Depolarization; Ontogeny (Clayton, G.H. (108) 307)

Chloride; Development; Inhibition; Chloride homeostasis; $GABA_A$ function; RNase protection analysis; In situ hybridization histochemistry (Clayton, G.H. (109) 281)

Amino acid receptor; Cocaine; Glutamate; Hippocampus; Inhibition; Development (Little, J.Z. (110) 115)

Cerebellar granule cells; Ethanol; Apoptosis; NMDA; Carbachol (Castoldi, A.F. (111) 279)

GABAergic
Septum; Culture; Cholinergic; Phenotype; Calbindin D-28k; Parvalbumin; Acetylcholinesterase (Murata, Y. (105) 1)

$GABA_A$ function
GABA; Chloride; Development; Inhibition; Chloride homeostasis; RNase protection analysis; In situ hybridization histochemistry (Clayton, G.H. (109) 281)

GABA-mediated chloride uptake
3α,5β-THP; Androsterone; Neural organization; Diazepam (Kellogg, C.K. (108) 131)

Ganglioside
Neuronal morphology; Cytoskeleton; MAP; Microtubule; Actin filament (Wang, L.-J. (105) 227)

GAP-43
Seizure; Hippocampus; Sprouting; Timm staining; Kainic acid; Development (Yang, Y. (107) 169)

Gastrointestinal tract
Biogenic amines; Dorsal root ganglia; Sympathetic ganglia; Heart; Endocrine; Placenta (Hansson, S.R. (110) 159)

G_z α subunit
G-proteins; Quantitative RT-PCR; mRNA; Development; Mouse nervous system (Kelleher, K.L. (107) 247)

Gene expression
Atrial natriuretic peptide; C-type natriuretic peptide; Neuronal development; In situ hybridization histochemistry; Olfactory nucleus; Habenula; Pontine nucleus (Ryan, M.C. (105) 251)

BDNF; Neurotrophin; IGF-I; Differentiation; Mouse (Lin, X. (105) 277)

Wasting disorder; Failure to thrive; Feeding; Food deprivation; Ontogeny; Brainstem; 5-Hydroxytryptamine (Jahng, J.W. (107) 241)

Development; Homeobox; Retinoic acid (Lindberg, C. (110) 215)

Genetic mutation
Pax-6; Bromodeoxyuridine; Forebrain (Brunjes, P.C. (110) 121)

Gestational diabetes
Rat hypothalamus; Differentiation; Catecholamine; Tyrosine hydroxylase; Body weight regulation (Plagemann, A. (109) 201)

Glia
Astrocyte; Central auditory system; Immunohistochemistry (Burette, A. (107) 179)

Glial cell
Calcium; Calcium-binding protein; Synaptophysin; Development; Pinealocyte; Immunocytochemistry; Multiple labeling (Redecker, P. (105) 43)

Glial fibrillary acidic protein
Midkine; Cerebral infarction; Astrocytes; Neurotrophic factor (Wang, S.-y. (106) 205)

Globus pallidus
Transsynaptic cell death; Developing rat; Substantia nigra pars reticulata; Subthalamic nucleus; Striatum; Fos expression; Ibotenic acid lesion (Yoshimura, M. (105) 25)

Glucocorticoid
Electron microscopy; Glucocorticoid receptor; Immunohistochemistry; Vimentin (Trejo, J.L. (108) 161)

Glucocorticoid receptor
Stress; Corticosterone; Corticosteroid binding globulin; Mineralocorticoid receptor; Androgen; Estrogen; Sexual differentiation (McCormick, C.M. (105) 295)

Mineralocorticoid receptor; Development; Limbic system; Hypothalamus; Guinea pig (Matthews, S.G. (107) 123)

Electron microscopy; Glucocorticoid; Immunohistochemistry; Vimentin (Trejo, J.L. (108) 161)

Glucose deprivation
Ontogenesis; $[Ca^{2+}]_0$; Field potential; CA1; Hippocampal slice; Rat (Alici, K. (107) 71)

GluR
Glutamate; AMPA; Subcellular; Maturation; Glycosylation; Localization; Synaptic plasticity (Standley, S. (107) 277)

Glutamate
Dentate gyrus; Granule cell; Mossy cell; Synapse formation; GABA; Organotypic culture (Werner, M. (105) 9)

N-Methyl-D-aspartate (NMDA) receptor; Parvalbumin; Striatum; Interneuron; MK-801; CGS-19755; Neurogenesis (Sadikot, A.F. (105) 35)

Energy metabolism; Hippocampal slice; Ischemia; Long-term incubation; Mild hypothermia; Ontogeny; Protein synthesis rate (Berger, R. (105) 67)

Cerebral cortex; Hypoxia; Microdialysis; Ovine fetus; Periventricular white matter (Henderson, J.L. (105) 287)

Hypoxic injury; CA1 neuron; Hippocampus; Development; NMDA receptor; Intracellular calcium; Fura-2 (Bickler, P.E. (106) 57)

Crustacea; Crayfish; Embryonic development; GABA; Immunohistochemistry; Neurotransmitter (Foa, L.C. (107) 33)

AMPA; GluR; Subcellular; Maturation; Glycosylation; Localization; Synaptic plasticity (Standley, S. (107) 277)

Amino acid receptor; Cocaine; GABA; Hippocampus; Inhibition; Development (Little, J.Z. (110) 115)

Tectum; Plasticity; Excitatory amino acid receptor; AP5; Visual deprivation; Iontophoresis (Binns, K.E. (110) 241)

Glutamate receptor
Spinal cord; NMDA receptor; Neonate; Axotomy; Apoptosis (Hughes, S. (105) 209)

Corticotropin releasing hormone; Seizure; Rat (Brunson, K.L. (111) 119)

Glycogen synthase kinase 3
Cerebellar granule neuron progenitors; Proliferation; Mitogen; Insulin-like growth factor I; Phosphoinositide 3-kinase (Cui, H. (111) 177)

Glycosaminoglycan
Immunohistochemistry; Dopamine; Development (Charvet, I. (109) 229)

Glycosylation
Glutamate; AMPA; GluR; Subcellular; Maturation; Localization; Synaptic plasticity (Standley, S. (107) 277)

GnRH-pulse generator
Puberty; Rat hypothalamus; mRNA; PCR ELISA (Roth, C. (110) 105)

Golgi–Cox
Auditory cortex; Somatosensory cortex; Stellate neuron; Visual cortex (Jarvinen, M.K. (107) 21)

Gonadotropin-releasing hormone
LHRH; Development; Thalamus; Habenula (Gill, C.J. (111) 129)

Gonadotropins
NMDA; Excitatory amino acids; GABA; Serotonin (Scacchi, P. (105) 51)

G-protein
Olfactory receptor; Olfactory neuron; Development; AxCam (Saito, H. (110) 69)

G_z α subunit; Quantitative RT-PCR; mRNA; Development; Mouse nervous system (Kelleher, K.L. (107) 247)

Granule cell
Dentate gyrus; Mossy cell; Synapse formation; Glutamate; GABA; Organotypic culture (Werner, M. (105) 9)

α-Bungarotoxin; Purkinje cell; Embryonic; Neurotransmitter; Development (Kaneko, W.M. (105) 141)

Growth-associated protein
Association area; Primary sensory area; Monkey; Northern blotting (Oishi, T. (109) 87)

Growth cones
Neuronal morphogenesis; Depolarization; Neurite outgrowth and branching; Electric activity (Ramakers, G.J.A. (108) 205)

Growth factor
Neurotrophin-3; Fusimotor innervation; Muscle spindle; Transgenic mice; Proprioception (Ringstedt, T. (111) 295)

Guinea pig
Mineralocorticoid receptor; Glucocorticoid receptor; Development; Limbic system; Hypothalamus (Matthews, S.G. (107) 123)

Immunohistochemistry; Nitric oxide synthase; Highly polysialylated isoform of neural cell adhesion molecule; S100 protein; Migration (Shariful Islam, A.T.M. (107) 191)

H

Habenula
Atrial natriuretic peptide; C-type natriuretic peptide; Neuronal development; Gene expression; In situ hybridization histochemistry; Olfactory nucleus; Pontine nucleus (Ryan, M.C. (105) 251)

Gonadotropin-releasing hormone; LHRH; Development; Thalamus (Gill, C.J. (111) 129)

Hamsters
Suprachiasmatic; Development; Dopamine; Circadian; Tyrosine hydroxylase; Autoradiography (Strother, W.N. (106) 137)

HB-EGF
Neuron; Interfascicular oligodendrocyte; CNS development; In situ hybridization; Immunohistochemistry (Nakagawa, T. (108) 263)

[^{3}H]CGP 12177
Bird; Ontogeny; Autoradiography; β1-Adrenoceptor; β2-Adrenoceptor (Revilla, R. (111) 159)

HCNP
Hippocampal cholinergic neurostimulating peptide; Peptide; NMDA receptor; Hippocampus; Activity-dependent cue (Ojika, K. (106) 173)

Heart
Biogenic amines; Dorsal root ganglia; Sympathetic ganglia; Gastrointestinal tract; Endocrine; Placenta (Hansson, S.R. (110) 159)

Heart rate
Central gray; Development; Defensive response; Kainate; Excitatory amino acid; Ultrasonic vocalization; Rat (Goodwin, G.A. (107) 11)

Heat-shock protein
Brain; Development; Heme oxygenase; HSP32; Neonatal (Bergeron, M. (105) 181)

Heme oxygenase
Brain; Development; Heat-shock protein; HSP32; Neonatal (Bergeron, M. (105) 181)

Hemidecortication
D_2 dopamine receptor; Caudate-putamen; Age-at-lesion; Cat (Loopuijt, L.D. (107) 113)

Hemispherectomy
Age-at-lesion; Functional recovery; Atrophy and neuron loss; Neuroplasticity (Villablanca, J.R. (105) 309)

High-affinity choline uptake
Septohippocampal cholinergic neurons; Hippocampus; Acetylcholine release; Presynaptic muscarinic autoreceptors; Postnatal development; Choline acetyltransferase (Goldbach, R. (108) 23)

Septohippocampal cholinergic neuron; Septum; Acetylcholine release; Presynaptic muscarinic autoreceptor; Postnatal development; Choline acetyltransferase (Disko, U. (108) 31)

Highly polysialylated isoform of neural cell adhesion molecule
Immunohistochemistry; Nitric oxide synthase; S100 protein; Migration; Guinea pig (Shariful Islam, A.T.M. (107) 191)

High potassium
Prosaposin; Prosaptide; Cerebellar granule cell; Neurotrophic factor (Tsuboi, K. (110) 249)

HIOMT
Circadian rhythms; In situ hybridization; Melatonin; Pineal; Postnatal development; Rat (Ribelayga, C. (110) 235)

Hippocampal cholinergic neurostimulating peptide
HCNP; Peptide; NMDA receptor; Hippocampus; Activity-dependent cue (Ojika, K. (106) 173)

Hippocampal slice
Energy metabolism; Glutamate; Ischemia; Long-term incubation; Mild hypothermia; Ontogeny; Protein synthesis rate (Berger, R. (105) 67)

Glucose deprivation; Ontogenesis; $[Ca^{2+}]_0$; Field potential; CA1; Rat (Alici, K. (107) 71)

Hippocampus
AChE; BuChE; Activity ratio; Brain development; Neurochemistry; Histochemistry; Olfactory bulb; Neocortex; Diencephalon; Mesencephalon; Cerebellum (Lassiter, T.L. (105) 109)

Stress protein; Parietal cortex; Neonate; Morphology; Cyclooxygenase (Beasley, T.C. (105) 125)

Development; Adenosine; Excitatory postsynaptic potential; Presynaptic (Dumas, T.C. (105) 137)

Fetal alcohol syndrome; Neuroprotection; Brain-derived neurotrophic factor; Ciliary neurotrophic factor; Nerve growth factor; MTT (Mitchell, J.J. (105) 241)

Nitric oxide synthase; NADPH diaphorase; Pyramidal neuron; Chronic prenatal ethanol exposure; Fetal guinea pig (Kimura, K.A. (106) 39)

Hypoxic injury; CA1 neuron; Development; Glutamate; NMDA receptor; Intracellular calcium; Fura-2 (Bickler, P.E. (106) 57)

Hippocampal cholinergic neurostimulating peptide; HCNP; Peptide; NMDA receptor; Activity-dependent cue (Ojika, K. (106) 173)

Seizure; Sprouting; Timm staining; GAP-43; Kainic acid; Development (Yang, Y. (107) 169)

NADPH-diaphorase; Nitric oxide; Dentate gyrus; Aging; Rat (Vaid, R.R. (107) 207)

Cyclooxygenase; Cerebral cortex; Cerebellum; Ischemia; Asphyxia; Prostaglandin H synthase-1; Prostaglandin H synthase-2; Indomethacin; Nitric oxide synthase (Dégi, R. (107) 265)

I_{KNa}; I_C; Sustained potassium currents; Maturation; CA1 (Santos, A.I. (108) 13)

Septohippocampal cholinergic neurons; Acetylcholine release; Presynaptic muscarinic autoreceptors; Postnatal development; Choline acetyltransferase; High-affinity choline uptake (Goldbach, R. (108) 23)

Electroconvulsive shock; c-*fos*; *jun*B; *TIS1*; *TIS8*; Development (Jung, H.Y. (108) 303)

Neuronal; Nicotinic; Cortex; Septum; Development (Shacka, J.J. (109) 67)

Adenosine; Development; Synaptic inhibition; Rat (Descombes, S. (110) 51)

Amino acid receptor; Cocaine; GABA; Glutamate; Inhibition; Development (Little, J.Z. (110) 115)

Autoradiography; Caudate–putamen; Dopamine D_4 receptor; Frontal cortex; Postnatal development (Tarazi, F.I. (110) 227)

Visual cortex; Polychlorinated biphenyl; Neurotoxicity; Long-term potentiation (Altmann, L. (110) 257)

Fibroblast growth factor; Calcium channels; Neural development (Katsuki, H. (111) 169)

Histochemistry
AChE; BuChE; Activity ratio; Brain development; Neurochemistry; Olfactory bulb; Hippocampus; Neocortex; Diencephalon; Mesencephalon; Cerebellum (Lassiter, T.L. (105) 109)

Histogenetic gradient
Nicotinamide adenine dinucleotide phosphate-diaphorase neuron; Environmental enrichment; Persistence; Somatosensory cortex; Rat (Fernández, V. (107) 299)

Homeobox
Gene expression; Development; Retinoic acid (Lindberg, C. (110) 215)

Homeobox genes
Ocular retardation; Visual pathway; Central nervous system; Zebrafish; Development (Passini, M.A. (109) 129)

Homeobox protein
Cell proliferation; Cell differentiation; Neural crest; Peripheral nervous system; Central nervous system (Xue, Z. (105) 59)

Horizontal–vertical discrimination learning
Ectopia; Prefrontal cortex; BXSB mouse; Non-spatial learning; Long-term retention; Reference memory (Balogh, S.A. (111) 291)

HPA-axis
Maternal deprivation; Ontogeny; Juvenile rat; Stress (Van Oers, H.J.J. (111) 245)

HSP32
Brain; Development; Heat-shock protein; Heme oxygenase; Neonatal (Bergeron, M. (105) 181)

5-HT_{1B}
Citalopram; Cyanopindolol; Dimethoxy-4-iodophenyl-2-aminopropane; 5-HT_{2A}; Ligand binding autoradiography (Mansour-Robaey, S. (107) 159)

5-HT_{2A}
Citalopram; Cyanopindolol; Dimethoxy-4-iodophenyl-2-aminopropane; 5-HT_{1B}; Ligand binding autoradiography (Mansour-Robaey, S. (107) 159)

Human brain
Cytisine; Epibatidine; Development; mRNA; Nicotinic receptor (Hellström-Lindahl, E. (108) 147)

Nitric oxide; Neuronal nitric oxide synthase; Development; Immunohistochemistry (Ohyu, J. (110) 193)

Human fetal development
In situ hybridization; Immunocytochemistry; Microglia; Macrophages; Lectins; CD68; EBM-11 (Zečević, N. (105) 97)

6-Hydroxydopamine
Mesolimbic; D2 receptor; Dopamine transporter; Nigrostriatal (Thomas, W.S. (111) 99)

5-Hydroxytryptamine
Wasting disorder; Failure to thrive; Feeding; Food deprivation; Ontogeny; Gene expression; Brainstem (Jahng, J.W. (107) 241)

Hypergravity
Development; Monoaminergic projection; Rat spinal cord (Giménez y Ribotta, M. (111) 147)

Hypoglossal nucleus
Synaptogenesis; Synapse elimination; Postnatal development; Morphometry; Electron microscopy (O'Kusky, J.R. (108) 179)

Hypothalamus
Mineralocorticoid receptor; Glucocorticoid receptor; Development; Limbic system; Guinea pig (Matthews, S.G. (107) 123)

Biogenic amines; Embryonal development; Subventricular zone; Basal ganglia; Sensory nuclei; Limbic system (Hansson, S.R. (110) 135)

Hypothermia
Anesthesia; Cortical development; Neuron number; Sex differences; Stereology (Nuñez, J.L. (111) 89)

Hypoxia
Cerebral cortex; Glutamate; Microdialysis; Ovine fetus; Periventricular white matter (Henderson, J.L. (105) 287)

NO; Nitric oxide; Vasodilation; Cerebrum; Brain; Fetal sheep (Aguan, K. (111) 271)

Hypoxia–ischemia
Development; Brain damage; Rat (Towfighi, J. (109) 169)

Hypoxic injury
CA1 neuron; Hippocampus; Development; Glutamate; NMDA receptor; Intracellular calcium; Fura-2 (Bickler, P.E. (106) 57)

I

I_C
I_{KNa}; Sustained potassium currents; Maturation; CA1; Hippocampus (Santos, A.I. (108) 13)

I_{KNa}
I_C; Sustained potassium currents; Maturation; CA1; Hippocampus (Santos, A.I. (108) 13)

Ibotenate
Cortical dysgenesis; Ectopia; Excitotoxicity; Migration; Microgyrus (Redecker, C. (109) 109)

Ibotenic acid lesion
Transsynaptic cell death; Developing rat; Substantia nigra pars reticulata; Subthalamic nucleus; Striatum; Globus pallidus; Fos expression (Yoshimura, M. (105) 25)

IFAPa-400
Neurogenesis; Myogenesis; Intermediate filament; Transitin (Ma, X. (109) 59)

IGF-I
BDNF; Neurotrophin; Differentiation; Gene expression; Mouse (Lin, X. (105) 277)

Mitogen; DNA synthesis; Differentiation; Brn-5; Mice (Cui, H. (106) 129)

Immunoblotting
Rat; DRG neuron; Calretinin; Immunohistochemistry (Ambrus, A. (106) 101)

Nitric oxide synthase; Intrauterine hypoxia–ischemia; Developmental change of enzyme activity; RT-PCR (Cai, Z. (109) 265)

Immunocytochemistry
Calcium; Calcium-binding protein; Synaptophysin; Development; Pinealocyte; Glial cell; Multiple labeling (Redecker, P. (105) 43)

Human fetal development; In situ hybridization; Microglia; Macrophages; Lectins; CD68; EBM-11 (Zečević, N. (105) 97)

Rat cerebellum; Morphometric analysis; Calbindin; Intracellular calcium store; R-type Ca^{2+} channel (Reitstetter, R. (107) 165)

Calcitonin gene-related peptide; Efferent vestibular system; Development (Demêmes, D. (108) 59)

Immunohistochemistry
Somatostatin; Development; Brain; Frog (Vallarino, M. (106) 13)

Locomotion; Neuropeptide; Development; Motor neuron; In vitro (Carr, P.A. (106) 47)

Rat; DRG neuron; Calretinin; Immunoblotting (Ambrus, A. (106) 101)

End-bulbs of Held; Cochlear nucleus magnocellularis; Opioid peptides; Calcium concentration (Code, R.A. (106) 165)

Epidermal growth factor receptor; In situ hybridization; Protein gene product 9.5; Development; Brain (Misumi, Y. (107) 1)

Crustacea; Crayfish; Embryonic development; GABA; Glutamate; Neurotransmitter (Foa, L.C. (107) 33)

Astrocyte; Glia; Central auditory system (Burette, A. (107) 179)

Nitric oxide synthase; Highly polysialylated isoform of neural cell adhesion molecule; S100 protein; Migration; Guinea pig (Shariful Islam, A.T.M. (107) 191)

Electron microscopy; Glucocorticoid; Glucocorticoid receptor; Vimentin (Trejo, J.L. (108) 161)

HB-EGF; Neuron; Interfascicular oligodendrocyte; CNS development; In situ hybridization (Nakagawa, T. (108) 263)

Olfactory epithelium; Cell migration; Basal cell; Bulbectomy (Suzuki, Y. (108) 295)

Axonal outgrowth; Boundary molecule; Confocal microscopy; Olfactory nerve axotomy; Sea lamprey (Zaidi, A.U. (109) 157)

Glycosaminoglycan; Dopamine; Development (Charvet, I. (109) 229)

Calbindin; Calmodulin; Ca^{2+}-binding proteins; *Suncus*; Cochlea; Development (Nomiya, S. (110) 7)

Calcium-binding protein; Neuronal markers; Postnatal development; Western blot; In situ hybridization; Roller tube culture (Sieg, F. (110) 83)

Nitric oxide; Neuronal nitric oxide synthase; Development; Human brain (Ohyu, J. (110) 193)

Immunoreactivity
Somatostatin; Maturation; Lateral ventricle; Quantitative analysis; Radioimmunoassay (Fontanesi, G. (107) 91)

Indomethacin
Cyclooxygenase; Cerebral cortex; Hippocampus; Cerebellum; Ischemia; Asphyxia; Prostaglandin H synthase-1; Prostaglandin H synthase-2; Nitric oxide synthase (Dégi, R. (107) 265)

Influx of Ca^{2+} ion
Cultured chick skeletal muscle cell; Brain extract; Na^+ channel; Ca^{2+} channel; Development of electrical excitability (Satoh, R. (110) 261)

Inhibition
GABA; Chloride; Development; Chloride homeostasis; $GABA_A$ function; RNase protection analysis; In situ hybridization histochemistry (Clayton, G.H. (109) 281)

Amino acid receptor; Cocaine; GABA; Glutamate; Hippocampus; Development (Little, J.Z. (110) 115)

Inhibition of neurite outgrowth
Adenosine receptor; A1 receptor; Nerve growth factor (Shaban, M. (105) 167)

Inhibitory interneuron
GABA; Apoptosis; Muscimol; Rat telencephalon; Aggregate cell culture (Honegger, P. (105) 219)

In situ histochemistry
BDNF; NT-3; TrkB; TrkC; Cerebellum; *Lurcher*; *Weaver*; RT-PCR (Wüllner, U. (110) 1)

In situ hybridization
Human fetal development; Immunocytochemistry; Microglia; Macrophages; Lectins; CD68; EBM-11 (Zečević, N. (105) 97)

Epidermal growth factor receptor; Protein gene product 9.5; Immunohistochemistry; Development; Brain (Misumi, Y. (107) 1)

HB-EGF; Neuron; Interfascicular oligodendrocyte; CNS development; Immunohistochemistry (Nakagawa, T. (108) 263)

Neuronal differentiation; Autoimmune disorder; mRNA expression; RNA binding protein; Elavl4; Paraneoplastic disease; RNase protection assay (Clayton, G.H. (109) 271)

Calcium-binding protein; Neuronal markers; Postnatal development; Western blot; Immunohistochemistry; Roller tube culture (Sieg, F. (110) 83)

Circadian rhythms; HIOMT; Melatonin; Pineal; Postnatal development; Rat (Ribelayga, C. (110) 235)

Somatosensory cortex; Whisker; Lateral geniculate; Vibrissae; Cingulate cortex; Autoradiography (Hansson, S.R. (111) 305)

In situ hybridization histochemistry
Atrial natriuretic peptide; C-type natriuretic peptide; Neuronal development; Gene expression; Olfactory nucleus; Habenula; Pontine nucleus (Ryan, M.C. (105) 251)

GABA; Chloride; Development; Inhibition; Chloride homeostasis; $GABA_A$ function; RNase protection analysis (Clayton, G.H. (109) 281)

CDP-diacylglycerol synthase; Phosphatidylinositol synthase; Brain; Retina; Rat (Saito, S. (110) 21)

Insulin-like growth factor I
Cerebellar granule neuron progenitors; Proliferation; Mitogen; Phosphoinositide 3-kinase; Glycogen synthase kinase 3 (Cui, H. (111) 177)

Interfascicular oligodendrocyte
HB-EGF; Neuron; CNS development; In situ hybridization; Immunohistochemistry (Nakagawa, T. (108) 263)

Inter-leg coordination
Locomotion; Rhythmical movement; Neonatal rat; Olfaction; Ontogeny (Fady, J.-C. (108) 111)

Intermediate filament
Neurogenesis; Myogenesis; Transitin; IFAPa-400 (Ma, X. (109) 59)

Interneuron
N-Methyl-D-aspartate (NMDA) receptor; Glutamate; Parvalbumin; Striatum; MK-801; CGS-19755; Neurogenesis (Sadikot, A.F. (105) 35)

Purkinje cell; Astrocyte; Dentate nucleus; Zonal organization (Yan, X.-X. (111) 253)

Intracellular calcium
Hypoxic injury; CA1 neuron; Hippocampus; Development; Glutamate; NMDA receptor; Fura-2 (Bickler, P.E. (106) 57)

Intracellular calcium store
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Pyramidal neocortical neuron; Rat brain slice; Purinoreceptor; Plasmalemmal channel (Lalo, U. (111) 43)

Intrauterine hypoxia–ischemia
Nitric oxide synthase; Developmental change of enzyme activity; RT-PCR; Immunoblotting (Cai, Z. (109) 265)

In vitro
Locomotion; Neuropeptide; Development; Motor neuron; Immunohistochemistry (Carr, P.A. (106) 47)

In vitro electrophysiology
Age; Synaptic plasticity; Theta rhythm; NMDA; Antidromic stimulation (Papatheodoropoulos, C. (108) 273)

In vitro study
Central pattern generator; Neonatal spinal cord; Motor rhythmicity; Mg^{2+}-free-induced activity; Excitatory amino acid (Bonnot, A. (108) 89)

Ion-selective microelectrode
Acetate conditioning; Cerebral cortex; DC potential; Development; Extracellular K^+ concentration; Spreading depression (Richter, F. (106) 217)

Iontophoresis
Tectum; Plasticity; Glutamate; Excitatory amino acid receptor; AP5; Visual deprivation (Binns, K.E. (110) 241)

Ischemia
Energy metabolism; Glutamate; Hippocampal slice; Long-term incubation; Mild hypothermia; Ontogeny; Protein synthesis rate (Berger, R. (105) 67)

Cyclooxygenase; Cerebral cortex; Hippocampus; Cerebellum; Asphyxia; Prostaglandin H synthase-1; Prostaglandin H synthase-2; Indomethacin; Nitric oxide synthase (Dégi, R. (107) 265)

J

***jun*B**
Electroconvulsive shock; c-*fos*; *TIS1*; *TIS8*; Hippocampus; Development (Jung, H.Y. (108) 303)

Juvenile rat
Maternal deprivation; HPA-axis; Ontogeny; Stress (Van Oers, H.J.J. (111) 245)

K

K_{Ca}
Calcium-dependent K^+ channel; Development; Cerebellum; Cellular firing pattern; Tetraethylammonium (Muller, Y.L. (108) 193)

Kainate
Central gray; Development; Defensive response; Excitatory amino acid; Heart rate; Ultrasonic vocalization; Rat (Goodwin, G.A. (107) 11)

Kainic acid
Seizure; Hippocampus; Sprouting; Timm staining; GAP-43; Development (Yang, Y. (107) 169)

Kappa
Development; Mu; Delta; Opioid receptor; Striatal compartment (Georges, F. (109) 187)

Keratin 8
Brain-derived neurotrophic factor; Foliate papilla; Knockout mouse; Nasopalate; NT3; Taste; TrkB; Vallate papilla (Cooper, D. (105) 79)

Ketoconazole
Cerebellum; Medulla oblongata; Retinoic acid catabolism; Cytochrome P450 (Yamamoto, M. (107) 103)

Knockout mouse
Brain-derived neurotrophic factor; Foliate papilla; Keratin 8; Nasopalate; NT3; Taste; TrkB; Vallate papilla (Cooper, D. (105) 79)

L

L1
M6; Retinal ganglion cell; Optic fibers (Mi, Z.-P. (106) 145)

6B4 proteoglycan/phosphacan; Mesencephalon; Dopamine neuron; Migration; NCAM-H (Ohyama, K. (107) 219)

Lateral geniculate
Somatosensory cortex; Whisker; Vibrissae; Cingulate cortex; Autoradiography; In situ hybridization (Hansson, S.R. (111) 305)

Lateral geniculate nucleus
Visual cortex; Muscarinic M_1 receptor; Adrenergic α_1 receptor; Adrenergic α_2 receptor; Serotonergic 5-HT_{2c} receptor; Postnatal development; Tetrodotoxin (Gu, Q. (106) 93)

Retinogeniculate development; Binocular competition (Garraghty, P.E. (107) 227)

Monocular visual deprivation; Development; Area 17; Axons (Wu, C.W.-H. (108) 47)

Lateral ventricle
Somatostatin; Maturation; Immunoreactivity; Quantitative analysis; Radioimmunoassay (Fontanesi, G. (107) 91)

Lectins
Human fetal development; In situ hybridization; Immunocytochemistry; Microglia; Macrophages; CD68; EBM-11 (Zečević, N. (105) 97)

LHRH
Olfactory placode; Neural cell adhesion molecule; Nervus terminalis; Vomeronasal organ (Dellovade, T.L. (107) 233)

Gonadotropin-releasing hormone; Development; Thalamus; Habenula (Gill, C.J. (111) 129)

Ligand binding autoradiography
Citalopram; Cyanopindolol; Dimethoxy-4-iodophenyl-2-aminopropane; 5-HT_{1B}; 5-HT_{2A} (Mansour-Robaey, S. (107) 159)

Limbic system
Mineralocorticoid receptor; Glucocorticoid receptor; Development; Hypothalamus; Guinea pig (Matthews, S.G. (107) 123)

Biogenic amines; Embryonal development; Subventricular zone; Basal ganglia; Sensory nuclei; Hypothalamus (Hansson, S.R. (110) 135)

Localization
Glutamate; AMPA; GluR; Subcellular; Maturation; Glycosylation; Synaptic plasticity (Standley, S. (107) 277)

Locomotion
Neuropeptide; Development; Motor neuron; In vitro; Immunohistochemistry (Carr, P.A. (106) 47)

Rhythmical movement; Inter-leg coordination; Neonatal rat; Olfaction; Ontogeny (Fady, J.-C. (108) 111)

Long-term incubation
Energy metabolism; Glutamate; Hippocampal slice; Ischemia; Mild hypothermia; Ontogeny; Protein synthesis rate (Berger, R. (105) 67)

Long-term potentiation
Visual cortex; Hippocampus; Polychlorinated biphenyl; Neurotoxicity (Altmann, L. (110) 257)

Long-term retention
Ectopia; Prefrontal cortex; BXSB mouse; Horizontal–vertical discrimination learning; Nonspatial learning; Reference memory (Balogh, S.A. (111) 291)

Lurcher
BDNF; NT-3; TrkB; TrkC; Cerebellum; *Weaver*; RT-PCR; In situ histochemistry (Wüllner, U. (110) 1)

M

M6
L1; Retinal ganglion cell; Optic fibers (Mi, Z.-P. (106) 145)

Macroglia
TTX; Stellation; Cat (Gargini, C. (110) 177)

Macrophages
Human fetal development; In situ hybridization; Immunocytochemistry; Microglia; Lectins; CD68; EBM-11 (Zečević, N. (105) 97)

Magnocellular nuclei
N-methyl-D-aspartate receptor; Neuroendocrine; Vasopressin; Paraventricular nucleus (Currás, M.C. (109) 1)

MAP
Ganglioside; Neuronal morphology; Cytoskeleton; Microtubule; Actin filament (Wang, L.-J. (105) 227)

MAPK
Depolarization; Proliferation; Cerebellar granule cell; Calcium channel; Rat (Borodinsky, L.N. (107) 43)

Marsupial
Biocytin; Cell death; Development; Sensorimotor connection; Spinal reflex (Ho, S.M. (106) 79)

MASH1
RT4; Neuroblastoma; Neural crest; Peripheral nervous system; Differentiation; REST/NRSF (Donahue, L.M. (106) 1)

Masseter
Development; Trigeminal; Mesencephalic; Motor; Mouse; Masticatory muscle; Teeth; Periodontium (Widmer, C.G. (108) 1)

Masticatory muscle
Development; Masseter; Trigeminal; Mesencephalic; Motor; Mouse; Teeth; Periodontium (Widmer, C.G. (108) 1)

Maternal deprivation
HPA-axis; Ontogeny; Juvenile rat; Stress (Van Oers, H.J.J. (111) 245)

Matrix
Cholineacetyltransferase; Bromodeoxyuridine; Patch (Van Vulpen, E.H.S. (109) 51)

Maturation
Somatostatin; Lateral ventricle; Immunoreactivity; Quantitative analysis; Radioimmunoassay (Fontanesi, G. (107) 91)

Glutamate; AMPA; GluR; Subcellular; Glycosylation; Localization; Synaptic plasticity (Standley, S. (107) 277)

I_{KNa}; I_C; Sustained potassium currents; CA1; Hippocampus (Santos, A.I. (108) 13)

MBP
Sp1; Development; Pb; Brain; Zinc; Finger; DNA-binding (Zawia, N.H. (107) 291)

McN-A-343
Bicuculline; Carbachol; Development; Epileptogenesis; Oxotremorine-M (Psarropoulou, C. (107) 285)

Medial geniculate body
Thalamus; Auditory; Firing pattern (Tennigkeit, F. (109) 255)

Medulla oblongata
Cerebellum; Retinoic acid catabolism; Cytochrome P450; Ketoconazole (Yamamoto, M. (107) 103)

Melanocortin-4-receptor
Pro-opiomelanocortin (POMC); Melanocyte-stimulating hormone; Development (Mountjoy, K.G. (107) 309)

Melanocyte-stimulating hormone
Melanocortin-4-receptor; Pro-opiomelanocortin (POMC); Development (Mountjoy, K.G. (107) 309)

Melatonin
Circadian rhythms; In situ hybridization; HIOMT; Pineal; Postnatal development; Rat (Ribelayga, C. (110) 235)

Membrane property
Development; Action potential; Rectification; Postsynaptic potential (Sakata, Y. (108) 255)

Meperidine
Neonatal; Rat; Opioid; Anti-nociception; Analgesia; Morphine; Fentanyl (Thornton, S.R. (105) 269)

Mesencephalic
Development; Masseter; Trigeminal; Motor; Mouse; Masticatory muscle; Teeth; Periodontium (Widmer, C.G. (108) 1)

Mesencephalon
AChE; BuChE; Activity ratio; Brain development; Neurochemistry; Histochemistry; Olfactory bulb; Hippocampus; Neocortex; Diencephalon; Cerebellum (Lassiter, T.L. (105) 109)

L1; 6B4 proteoglycan/phosphacan; Dopamine neuron; Migration; NCAM-H (Ohyama, K. (107) 219)

Mesolimbic
D2 receptor; Dopamine transporter; 6-Hydroxydopamine; Nigrostriatal (Thomas, W.S. (111) 99)

Metabolite
Neurotensin; Neonatal; Brain development (Bennett, G.W. (111) 189)

Methadone
Teratology; Neurodevelopment; Neuron; Cocaine (Nassogne, M.-C. (110) 61)

Mg^{2+}-free-induced activity
Central pattern generator; Neonatal spinal cord; In vitro study; Motor rhythmicity; Excitatory amino acid (Bonnot, A. (108) 89)

Mice
Mitogen; IGF-I; DNA synthesis; Differentiation; Brn-5 (Cui, H. (106) 129)

Microanalysis
Nitric oxide synthase; NOS isoform; Cerebellar layer; nNOS mRNA; N^G-Nitro-L-arginine (Wang, W. (111) 65)

Microdialysis
Cerebral cortex; Glutamate; Hypoxia; Ovine fetus; Periventricular white matter (Henderson, J.L. (105) 287)

Microglia
Human fetal development; In situ hybridization; Immunocytochemistry; Macrophages; Lectins; CD68; EBM-11 (Zečević, N. (105) 97)

Microgyrus
Cortical dysgenesis; Ectopia; Excitotoxicity; Ibotenate; Migration (Redecker, C. (109) 109)

Microtubule
Ganglioside; Neuronal morphology; Cytoskeleton; MAP; Actin filament (Wang, L.-J. (105) 227)

Microtubule associated proteins
Phosphorylation; PHF-1; Tau 1; Neuronal culture; Alzheimer's disease (Combs, C.K. (107) 143)

Midkine
Cerebral infarction; Astrocytes; Neurotrophic factor; Glial fibrillary acidic protein (Wang, S.-y. (106) 205)

Migration
Immunohistochemistry; Nitric oxide synthase; Highly polysialylated isoform of neural cell adhesion molecule; S100 protein; Guinea pig (Shariful Islam, A.T.M. (107) 191)

L1; 6B4 proteoglycan/phosphacan; Mesencephalon; Dopamine neuron; NCAM-H (Ohyama, K. (107) 219)

Cortical dysgenesis; Ectopia; Excitotoxicity; Ibotenate; Microgyrus (Redecker, C. (109) 109)

Mild hypothermia
Energy metabolism; Glutamate; Hippocampal slice; Ischemia; Long-term incubation; Ontogeny; Protein synthesis rate (Berger, R. (105) 67)

Mineralocorticoid receptor
Stress; Corticosterone; Corticosteroid binding globulin; Glucocorticoid receptor; Androgen; Estrogen; Sexual differentiation (McCormick, C.M. (105) 295)

Glucocorticoid receptor; Development; Limbic system; Hypothalamus; Guinea pig (Matthews, S.G. (107) 123)

Minor processes
Sphingolipids; Fumonisin B_1; Dendrites (Schwarz, A. (108) 125)

Mitogen
IGF-I; DNA synthesis; Differentiation; Brn-5; Mice (Cui, H. (106) 129)

Cerebellar granule neuron progenitors; Proliferation; Insulin-like growth factor I; Phosphoinositide 3-kinase; Glycogen synthase kinase 3 (Cui, H. (111) 177)

MK-801
N-Methyl-D-aspartate (NMDA) receptor; Glutamate; Parvalbumin; Striatum; Interneuron; CGS-19755; Neurogenesis (Sadikot, A.F. (105) 35)

Monkey
Growth-associated protein; Association area; Primary sensory area; Northern blotting (Oishi, T. (109) 87)

Monoaminergic ontogeny
VMAT2; VMAT1; VAChT; Chemical coding; Autonomic development (Schütz, B. (106) 181)

Monoaminergic projection
Hypergravity; Development; Rat spinal cord (Giménez y Ribotta, M. (111) 147)

Monocular visual deprivation
Development; Lateral geniculate nucleus; Area 17; Axons (Wu, C.W.-H. (108) 47)

Monodelphis domestica
NADPH-diaphorase; Chemosensory system (Shapiro, L.S. (111) 51)

Morphine
Neonatal; Rat; Opioid; Anti-nociception; Analgesia; Fentanyl; Meperidine (Thornton, S.R. (105) 269)

Rat; Development; Opioid receptor; Spinal cord; Autoradiography; Electrophysiology (Rahman, W. (108) 239)

Morphology
Stress protein; Parietal cortex; Hippocampus; Neonate; Cyclooxygenase (Beasley, T.C. (105) 125)

Morphometric analysis
Rat cerebellum; Calbindin; Immunocytochemistry; Intracellular calcium store; R-type Ca^{2+} channel (Reitstetter, R. (107) 165)

Morphometry
Hypoglossal nucleus; Synaptogenesis; Synapse elimination; Postnatal development; Electron microscopy (O'Kusky, J.R. (108) 179)

Mossy cell
Dentate gyrus; Granule cell; Synapse formation; Glutamate; GABA; Organotypic culture (Werner, M. (105) 9)

Motor
Fetal alcohol syndrome; Cerebellum; Development; Ethanol; Purkinje cell (Thomas, J.D. (105) 159)

Development; Masseter; Trigeminal; Mesencephalic; Mouse; Masticatory muscle; Teeth; Periodontium (Widmer, C.G. (108) 1)

Motor neuron
Locomotion; Neuropeptide; Development; In vitro; Immunohistochemistry (Carr, P.A. (106) 47)

Motor rhythmicity
Central pattern generator; Neonatal spinal cord; In vitro study; Mg^{2+}-free-induced activity; Excitatory amino acid (Bonnot, A. (108) 89)

Motor system
Synaptogenesis; Ontogenesis (Gingras, J. (106) 211)

Motor unit
Partial denervation; Development; L-Dopa (Tyč, F. (109) 149)

Mouse
Axon; Brain-derived neurotrophic factor; Foliate papilla; Fungiform papilla; Neurotrophin-3; Tongue (Oakley, B. (105) 85)

BDNF; Neurotrophin; IGF-I; Differentiation; Gene expression (Lin, X. (105) 277)

Development; Masseter; Trigeminal; Mesencephalic; Motor; Masticatory muscle; Teeth; Periodontium (Widmer, C.G. (108) 1)

PACAP; Receptor; Development; Embryo (Sheward, W.J. (109) 245)

Mouse cerebellar granule cell
Excitotoxicity; Development; Cell calcium; Rat hippocampal neuron; Fura-2 (Adamec, E. (108) 101)

Mouse embryo
Brain-2; Transcriptional regulatory region; Transgenic mice; Expression of *LacZ*; Olfactory epithelium (Hagino-Yamagishi, K. (109) 77)

Mouse nervous system
G-proteins; G_z α subunit; Quantitative RT-PCR; mRNA; Development (Kelleher, K.L. (107) 247)

mRNA
G-proteins; G_z α subunit; Quantitative RT-PCR; Development; Mouse nervous system (Kelleher, K.L. (107) 247)

mRNA expression
Neuronal differentiation; Autoimmune disorder; In situ hybridization; RNA binding protein; Elavl4; Paraneoplastic disease; RNase protection assay (Clayton, G.H. (109) 271)

MTT
Fetal alcohol syndrome; Neuroprotection; Hippocampus; Brain-derived neurotrophic factor; Ciliary neurotrophic factor; Nerve growth factor (Mitchell, J.J. (105) 241)

Mu
Development; Delta; Kappa; Opioid receptor; Striatal compartment (Georges, F. (109) 187)

Müller cell
Retina; Development; Teleost; Cone photoreceptor; Rod photoreceptor; GABA; Vimentin (Hagedorn, M. (108) 217)

Multiple labeling
Calcium; Calcium-binding protein; Synaptophysin; Development; Pinealocyte; Glial cell; Immunocytochemistry (Redecker, P. (105) 43)

Murine trisomy 16
Aneuploidy; Down syndrome; Cerebellum; Neuron cell culture; Abnormal neuronal filament (Bersu, E.T. (109) 115)

Muscarinic M_1 receptor
Visual cortex; Lateral geniculate nucleus; Adrenergic α_1 receptor; Adrenergic α_2 receptor; Serotonergic 5-HT_{2c} receptor; Postnatal development; Tetrodotoxin (Gu, Q. (106) 93)

Muscimol
Inhibitory interneuron; GABA; Apoptosis; Rat telencephalon; Aggregate cell culture (Honegger, P. (105) 219)

Muscle force
Dantrolene sodium; Excitation–contraction coupling; Acetylcholine sensitivity; Development (Greensmith, L. (110) 131)

Muscle spindle
Neurotrophin-3; Fusimotor innervation; Growth factor; Transgenic mice; Proprioception (Ringstedt, T. (111) 295)

Myelination
Proteolipid protein; Myelin basic protein; Rat CNS; Quantification; Myelin protein (Hamano, K. (108) 287)

Choline; Phosphatidylcholine; Phosphatidic acid; Synaptogenesis; Oleic acid; Phosphatidylinositol-4,5-bisphosphate (Zhao, D. (109) 121)

Congenital hypothyroidism; Proton magnetic resonance spectroscopy; Central nervous system ontogeny; Thyroxine (Jagannathan, N.R. (109) 179)

Myelin basic protein
Myelination; Proteolipid protein; Rat CNS; Quantification; Myelin protein (Hamano, K. (108) 287)

Myelin protein
Myelination; Proteolipid protein; Myelin basic protein; Rat CNS; Quantification (Hamano, K. (108) 287)

Myogenesis
Neurogenesis; Intermediate filament; Transitin; IFAPa-400 (Ma, X. (109) 59)

N

Na^+ channel
Cultured chick skeletal muscle cell; Brain extract; Ca^{2+} channel; Development of electrical excitability; Influx of Ca^{2+} ion (Satoh, R. (110) 261)

NADPH diaphorase
Nitric oxide synthase; Pyramidal neuron; Hippocampus; Chronic prenatal ethanol exposure; Fetal guinea pig (Kimura, K.A. (106) 39)

NADPH-diaphorase
Nitric oxide; Hippocampus; Dentate gyrus; Aging; Rat (Vaid, R.R. (107) 207)

Chemosensory system; *Monodelphis domestica* (Shapiro, L.S. (111) 51)

Naltrindole
Development; δ-Opioid receptor blockade; Stress-induced-antinociception; Alfentanil; μ–δ-Receptor interaction (Antelo, Ma.T. (110) 127)

Nasopalate
Brain-derived neurotrophic factor; Foliate papilla; Keratin 8; Knockout mouse; NT3; Taste; TrkB; Vallate papilla (Cooper, D. (105) 79)

NCAM-H
L1; 6B4 proteoglycan/phosphacan; Mesencephalon; Dopamine neuron; Migration (Ohyama, K. (107) 219)

Neocortex
AChE; BuChE; Activity ratio; Brain development; Neurochemistry; Histochemistry; Olfactory bulb; Hippocampus; Diencephalon; Mesencephalon; Cerebellum (Lassiter, T.L. (105) 109)

Thalamus; Cat; Developmental injury of brain (Schmanke, T.D. (105) 325)

Cortical pattern formation; Protomap; Slice culture; Claustrum; Endopiriform nuclei (Arimatsu, Y. (106) 71)

Neonatal
Brain; Development; Heat-shock protein; Heme oxygenase; HSP32 (Bergeron, M. (105) 181)

Rat; Opioid; Anti-nociception; Analgesia; Morphine; Fentanyl; Meperidine (Thornton, S.R. (105) 269)

Neurotensin; Metabolite; Brain development (Bennett, G.W. (111) 189)

Neonatal brain damage
Blood–brain barrier; Neuron (Vannucci, S.J. (107) 255)

Neonatal rat
Locomotion; Rhythmical movement; Inter-leg coordination; Olfaction; Ontogeny (Fady, J.-C. (108) 111)

Neonatal spinal cord
Central pattern generator; In vitro study; Motor rhythmicity; Mg^{2+}-free-induced activity; Excitatory amino acid (Bonnot, A. (108) 89)

Neonate
Stress protein; Parietal cortex; Hippocampus; Morphology; Cyclooxygenase (Beasley, T.C. (105) 125)

Spinal cord; NMDA receptor; Glutamate receptor; Axotomy; Apoptosis (Hughes, S. (105) 209)

Nerve growth factor
Adenosine receptor; Inhibition of neurite outgrowth; A1 receptor (Shaban, M. (105) 167)

Fetal alcohol syndrome; Neuroprotection; Hippocampus; Brain-derived neurotrophic factor; Ciliary neurotrophic factor; MTT (Mitchell, J.J. (105) 241)

Differentiation; Somatostatin; Neurofilament; Pertussis toxin; Protein kinase (Traina, G. (111) 223)

Nerve Growth Factor receptor
NGF; Developmental neurotoxicology; Protein phosphorylation; *trk*; Tropomyosin receptor kinase (Barone Jr., S. (109) 13)

Nervus terminalis
Olfactory placode; LHRH; Neural cell adhesion molecule; Vomeronasal organ (Dellovade, T.L. (107) 233)

Netrin
Trapezoid body; Auditory development; Collagen-gel matrix; Cochlear nucleus; Floor plate (Poe, B.H. (105) 153)

Neural cell adhesion molecule
Olfactory placode; LHRH; Nervus terminalis; Vomeronasal organ (Dellovade, T.L. (107) 233)

Neural crest
Homeobox protein; Cell proliferation; Cell differentiation; Peripheral nervous system; Central nervous system (Xue, Z. (105) 59)

RT4; Neuroblastoma; Peripheral nervous system; Differentiation; MASH1; REST/NRSF (Donahue, L.M. (106) 1)

Neural development
Fibroblast growth factor; Calcium channels; Hippocampus (Katsuki, H. (111) 169)

Neural organization
3α,5β-THP; Androsterone; Diazepam; GABA-mediated chloride uptake (Kellogg, C.K. (108) 131)

Neural protein
NG108-15 cell line; Serum-free medium; Excitability; Patch-clamp; Neurotransmitter enzyme; Bromodeoxyuridine; Proliferation; Differentiation (Ma, W. (106) 155)

Neural Transplantation
Neuroglia; Ventral mesencephalon; Parkinson's disease; Dopaminergic neuron (Quintana, J.G. (105) 147)

Neurite
Photoreceptor cell inner and outer segment; Trophic factor; Degeneration; Opsin (Sheedlo, H.J. (107) 57)

Neurite outgrowth and branching
Neuronal morphogenesis; Growth cones; Depolarization; Electric activity (Ramakers, G.J.A. (108) 205)

Neuroblastoma
Apoptosis; Antimitotic agent (Smith, T.T.K. (105) 175)

RT4; Neural crest; Peripheral nervous system; Differentiation; MASH1; REST/NRSF (Donahue, L.M. (106) 1)

Neurochemistry
AChE; BuChE; Activity ratio; Brain development; Histochemistry; Olfactory bulb; Hippocampus; Neocortex; Diencephalon; Mesencephalon; Cerebellum (Lassiter, T.L. (105) 109)

Neurodevelopment
Teratology; Neuron; Methadone; Cocaine (Nassogne, M.-C. (110) 61)

Neuroendocrine
Corticotropin releasing factor; Receptor; Ventromedial hypothalamus; Ontogeny; Rat (Eghbal-Ahmadi, M. (107) 81)

N-methyl-D-aspartate receptor; Vasopressin; Magnocellular nuclei; Paraventricular nucleus (Currás, M.C. (109) 1)

Neuroepithelium
Development; Brain damage; Regeneration; Cell kinetics (Oyanagi, K. (108) 229)

Neurofilament
Differentiation; Nerve growth factor; Somatostatin; Pertussis toxin; Protein kinase (Traina, G. (111) 223)

Neurogenesis
N-Methyl-D-aspartate (NMDA) receptor; Glutamate; Parvalbumin; Striatum; Interneuron; MK-801; CGS-19755 (Sadikot, A.F. (105) 35)

Myogenesis; Intermediate filament; Transitin; IFAPa-400 (Ma, X. (109) 59)

Neuroglia
Neural Transplantation; Ventral mesencephalon; Parkinson's disease; Dopaminergic neuron (Quintana, J.G. (105) 147)

Neurohypophysis
Satiety; Suckling; PVN; NST (Nelson, E.E. (111) 301)

Neuromuscular junction
Agrin receptor; Dystroglycan; Synaptogenesis (Deyst, K.A. (110) 185)

Neuron
Blood–brain barrier; Neonatal brain damage (Vannucci, S.J. (107) 255)

HB-EGF; Interfascicular oligodendrocyte; CNS development; In situ hybridization; Immunohistochemistry (Nakagawa, T. (108) 263)

Teratology; Neurodevelopment; Methadone; Cocaine (Nassogne, M.-C. (110) 61)

Neuronal
Nicotinic; Hippocampus; Cortex; Septum; Development (Shacka, J.J. (109) 67)

Neuronal cell death
Caspase-3; CPP32; Apoptosis; Program cell death; Site-directed antiserum (Urase, K. (111) 77)

Neuronal culture
Microtubule associated proteins; Phosphorylation; PHF-1; Tau 1; Alzheimer's disease (Combs, C.K. (107) 143)

Neuronal death
Apoptosis; Circadian; Retinohypothalamic; Stereological; Suprachiasmatic (Müller, C. (110) 203)

Neuronal development
Atrial natriuretic peptide; C-type natriuretic peptide; Gene expression; In situ hybridization histochemistry; Olfactory nucleus; Habenula; Pontine nucleus (Ryan, M.C. (105) 251)

Neuronal differentiation
Dopamine or dopaminergic; Fetal brain development or ontogeny; Neurotransmitter receptor; Cortex; Striatum; Forebrain (Unis, A.S. (106) 109)

Autoimmune disorder; mRNA expression; In situ hybridization; RNA binding protein; Elavl4; Paraneoplastic disease; RNase protection assay (Clayton, G.H. (109) 271)

R-cognin; Protein disulfide isomerase; Cell–cell recognition; Chick embryo (Pariser, H.P. (111) 1)

Neuronal markers
Calcium-binding protein; Postnatal development; Western blot; Immunohistochemistry; In situ hybridization; Roller tube culture (Sieg, F. (110) 83)

Neuronal morphogenesis
Growth cones; Depolarization; Neurite outgrowth and branching; Electric activity (Ramakers, G.J.A. (108) 205)

Neuronal morphology
Ganglioside; Cytoskeleton; MAP; Microtubule; Actin filament (Wang, L.-J. (105) 227)

Neuronal nitric oxide synthase
Nitric oxide; Development; Immunohistochemistry; Human brain (Ohyu, J. (110) 193)

nNOS; Embryo; Development; Rat (Santacana, M. (111) 205)

Neuron cell culture
Aneuploidy; Murine trisomy 16; Down syndrome; Cerebellum; Abnormal neuronal filament (Bersu, E.T. (109) 115)

Neuron number
Anesthesia; Cortical development; Hypothermia; Sex differences; Stereology (Nuñez, J.L. (111) 89)

Neuropeptide
Locomotion; Development; Motor neuron; In vitro; Immunohistochemistry (Carr, P.A. (106) 47)

Neuroplasticity
Age-at-lesion; Functional recovery; Atrophy and neuron loss; Hemispherectomy (Villablanca, J.R. (105) 309)

Cerebral hemineodecortication; Oxidative metabolism; Age-at-lesion effect; Recovery of function (Hovda, D.A. (110) 39)

Neuroprotection
Fetal alcohol syndrome; Hippocampus; Brain-derived neurotrophic factor; Ciliary neurotrophic factor; Nerve growth factor; MTT (Mitchell, J.J. (105) 241)

Neurotensin
Neonatal; Metabolite; Brain development (Bennett, G.W. (111) 189)

Neurotoxicity
NMDA receptor subunit; Antagonist; Supersensitivity; Development (Wilson, M.A. (109) 211)

Visual cortex; Hippocampus; Polychlorinated biphenyl; Long-term potentiation (Altmann, L. (110) 257)

Neurotransmitter
α-Bungarotoxin; Purkinje cell; Granule cell; Embryonic; Development (Kaneko, W.M. (105) 141)

Superior colliculus; Optic nerve; Development; Evoked response; Synaptic transmission; Axonal conduction (Reece, L.J. (106) 25)

Crustacea; Crayfish; Embryonic development; GABA; Glutamate; Immunohistochemistry (Foa, L.C. (107) 33)

Neurotransmitter enzyme
NG108-15 cell line; Serum-free medium; Excitability; Patch-clamp; Neural protein; Bromodeoxyuridine; Proliferation; Differentiation (Ma, W. (106) 155)

Neurotransmitter receptor
Dopamine or dopaminergic; Fetal brain development or ontogeny; Neuronal differentiation; Cortex; Striatum; Forebrain (Unis, A.S. (106) 109)

Neurotrophic factor
Midkine; Cerebral infarction; Astrocytes; Glial fibrillary acidic protein (Wang, S.-y. (106) 205)

Prosaposin; Prosaptide; Cerebellar granule cell; High potassium (Tsuboi, K. (110) 249)

Neurotrophin-3
Axon; Brain-derived neurotrophic factor; Foliate papilla; Fungiform papilla; Mouse; Tongue (Oakley, B. (105) 85)

Neurotrophin
BDNF; IGF-I; Differentiation; Gene expression; Mouse (Lin, X. (105) 277)

Neurotrophin 4/5
Cell death; Target dependence; Fetal brain graft; Brain-derived neurotrophic factor; Retinotectal pathway (Spalding, K.L. (107) 133)

Neurotrophin-3
Fusimotor innervation; Growth factor; Muscle spindle; Transgenic mice; Proprioception (Ringstedt, T. (111) 295)

NG108-15 cell line
Serum-free medium; Excitability; Patch-clamp; Neural protein; Neurotransmitter enzyme; Bromodeoxyuridine; Proliferation; Differentiation (Ma, W. (106) 155)

NGF
Cell culture; Cell death; Cerebral cortex; Fetal alcohol syndrome; Receptor (Seabold, G.K. (108) 139)

Nerve Growth Factor receptor; Developmental neurotoxicology; Protein phosphorylation; *trk*; Tropomyosin receptor kinase (Barone Jr., S. (109) 13)

NGF antibodies
Acetylcholine; Slow EPSP; Carbachol; Development (Avignone, E. (109) 137)

Nicotinamide adenine dinucleotide phosphate-diaphorase neuron
Environmental enrichment; Persistence; Histogenetic gradient; Somatosensory cortex; Rat (Fernández, V. (107) 299)

Nicotinic
Neuronal; Hippocampus; Cortex; Septum; Development (Shacka, J.J. (109) 67)

Nicotinic receptor
Cytisine; Epibatidine; Human brain; Development; mRNA (Hellström-Lindahl, E. (108) 147)

Nigrostriatal
Mesolimbic; D2 receptor; Dopamine transporter; 6-Hydroxydopamine (Thomas, W.S. (111) 99)

Nitric oxide
NADPH-diaphorase; Hippocampus; Dentate gyrus; Aging; Rat (Vaid, R.R. (107) 207)

Seizure; Status epilepticus; Development; L-arginine; N^G-nitro-L-arginine (Pereira de Vasconcelos, A. (107) 315)

Neuronal nitric oxide synthase; Development; Immunohistochemistry; Human brain (Ohyu, J. (110) 193)

NO; Hypoxia; Vasodilation; Cerebrum; Brain; Fetal sheep (Aguan, K. (111) 271)

Nitric oxide synthase
NADPH diaphorase; Pyramidal neuron; Hippocampus; Chronic prenatal ethanol exposure; Fetal guinea pig (Kimura, K.A. (106) 39)

Immunohistochemistry; Highly polysialylated isoform of neural cell adhesion molecule; S100 protein; Migration; Guinea pig (Shariful Islam, A.T.M. (107) 191)

Cyclooxygenase; Cerebral cortex; Hippocampus; Cerebellum; Ischemia; Asphyxia; Prostaglandin H synthase-1; Prostaglandin H synthase-2; Indomethacin (Dégi, R. (107) 265)

Intrauterine hypoxia–ischemia; Developmental change of enzyme activity; RT-PCR; Immunoblotting (Cai, Z. (109) 265)

NOS isoform; Microanalysis; Cerebellar layer; nNOS mRNA; N^G-Nitro-L-arginine (Wang, W. (111) 65)

N^G-Nitro-L-arginine
Nitric oxide synthase; NOS isoform; Microanalysis; Cerebellar layer; nNOS mRNA (Wang, W. (111) 65)

NMDA
Excitatory amino acids; Gonadotropins; GABA; Serotonin (Scacchi, P. (105) 51)

AMPA; Biocytin; Development; GABA; Somatosensory; Thalamus; Trigeminal; Vibrissa (Leamey, C.A. (105) 195)

Age; Synaptic plasticity; Theta rhythm; Antidromic stimulation; In vitro electrophysiology (Papatheodoropoulos, C. (108) 273)

Cerebellar granule cells; Ethanol; Apoptosis; Carbachol; GABA (Castoldi, A.F. (111) 279)

NMDA receptor
Spinal cord; Glutamate receptor; Neonate; Axotomy; Apoptosis (Hughes, S. (105) 209)

Hypoxic injury; CA1 neuron; Hippocampus; Development; Glutamate; Intracellular calcium; Fura-2 (Bickler, P.E. (106) 57)

Hippocampal cholinergic neurostimulating peptide; HCNP; Peptide; Hippocampus; Activity-dependent cue (Ojika, K. (106) 173)

NMDA receptor subunit
Antagonist; Supersensitivity; Neurotoxicity; Development (Wilson, M.A. (109) 211)

***N*-Methyl-D-aspartate (NMDA) receptor**
Glutamate; Parvalbumin; Striatum; Interneuron; MK-801; CGS-19755; Neurogenesis (Sadikot, A.F. (105) 35)

Neuroendocrine; Vasopressin; Magnocellular nuclei; Paraventricular nucleus (Currás, M.C. (109) 1)

N^G-nitro-L-arginine
Nitric oxide; Seizure; Status epilepticus; Development; L-arginine (Pereira de Vasconcelos, A. (107) 315)

NO
Nitric oxide; Hypoxia; Vasodilation; Cerebrum; Brain; Fetal sheep (Aguan, K. (111) 271)

Non-spatial learning
Ectopia; Prefrontal cortex; BXSB mouse; Horizontal–vertical discrimination learning; Long-term retention; Reference memory (Balogh, S.A. (111) 291)

Northern blotting
Growth-associated protein; Association area; Primary sensory area; Monkey (Oishi, T. (109) 87)

nNOS
Neuronal nitric oxide synthase; Embryo; Development; Rat (Santacana, M. (111) 205)

NOS isoform
Nitric oxide synthase; Microanalysis; Cerebellar layer; nNOS mRNA; N^G-Nitro-L-arginine (Wang, W. (111) 65)

nNOS mRNA
Nitric oxide synthase; NOS isoform; Microanalysis; Cerebellar layer; N^G-Nitro-L-arginine (Wang, W. (111) 65)

NST
Satiety; Suckling; PVN; Neurohypophysis (Nelson, E.E. (111) 301)

NT3
Brain-derived neurotrophic factor; Foliate papilla; Keratin 8; Knockout mouse; Nasopalate; Taste; TrkB; Vallate papilla (Cooper, D. (105) 79)

BDNF; TrkB; TrkC; Cerebellum; *Lurcher*; *Weaver*; RT-PCR; In situ histochemistry (Wüllner, U. (110) 1)

O

Ocular retardation
Homeobox genes; Visual pathway; Central nervous system; Zebrafish; Development (Passini, M.A. (109) 129)

Oleic acid
Choline; Phosphatidylcholine; Phosphatidic acid; Myelination; Synaptogenesis; Phosphatidylinositol-4,5-bisphosphate (Zhao, D. (109) 121)

Olfaction
Locomotion; Rhythmical movement; Inter-leg coordination; Neonatal rat; Ontogeny (Fady, J.-C. (108) 111)

Olfactory bulb
AChE; BuChE; Activity ratio; Brain development; Neurochemistry; Histochemistry; Hippocampus; Neocortex; Diencephalon; Mesencephalon; Cerebellum (Lassiter, T.L. (105) 109)

Olfactory epithelium
Cell migration; Basal cell; Bulbectomy; Immunohistochemistry (Suzuki, Y. (108) 295)

Brain-2; Transcriptional regulatory region; Transgenic mice; Mouse embryo; Expression of *LacZ* (Hagino-Yamagishi, K. (109) 77)

Olfactory nerve axotomy
Axonal outgrowth; Boundary molecule; Confocal microscopy; Immunohistochemistry; Sea lamprey (Zaidi, A.U. (109) 157)

Olfactory neuron
Olfactory receptor; Development; G-protein; AxCam (Saito, H. (110) 69)

Olfactory nucleus
Atrial natriuretic peptide; C-type natriuretic peptide; Neuronal development; Gene expression; In situ hybridization histochemistry; Habenula; Pontine nucleus (Ryan, M.C. (105) 251)

Olfactory placode
LHRH; Neural cell adhesion molecule; Nervus terminalis; Vomeronasal organ (Dellovade, T.L. (107) 233)

Olfactory receptor
Olfactory neuron; Development; G-protein; AxCam (Saito, H. (110) 69)

Ontogenesis
Synaptogenesis; Motor system (Gingras, J. (106) 211)

Glucose deprivation; $[Ca^{2+}]_0$; Field potential; CA1; Hippocampal slice; Rat (Alici, K. (107) 71)

Ontogeny
Energy metabolism; Glutamate; Hippocampal slice; Ischemia; Long-term incubation; Mild hypothermia; Protein synthesis rate (Berger, R. (105) 67)

Corticotropin releasing factor; Receptor; Ventromedial hypothalamus; Neuroendocrine; Rat (Eghbal-Ahmadi, M. (107) 81)

Wasting disorder; Failure to thrive; Feeding; Food deprivation; Gene expression; Brainstem; 5-Hydroxytryptamine (Jahng, J.W. (107) 241)

Locomotion; Rhythmical movement; Inter-leg coordination; Neonatal rat; Olfaction (Fady, J.-C. (108) 111)

Chloride channel; GABA; Depolarization (Clayton, G.H. (108) 307)

Afterdischarge; CA3; CA1 (Stringer, J.L. (110) 97)

Bird; Autoradiography; β1-Adrenoceptor; β2-Adrenoceptor; [^{3}H]CGP 12177 (Revilla, R. (111) 159)

Maternal deprivation; HPA-axis; Juvenile rat; Stress (Van Oers, H.J.J. (111) 245)

Opioid
Neonatal; Rat; Anti-nociception; Analgesia; Morphine; Fentanyl; Meperidine (Thornton, S.R. (105) 269)

Opioid peptides
End-bulbs of Held; Cochlear nucleus magnocellularis; Immunohistochemistry; Calcium concentration (Code, R.A. (106) 165)

Opioid receptor
Rat; Development; Spinal cord; Autoradiography; Morphine; Electrophysiology (Rahman, W. (108) 239)

Development; Mu; Delta; Kappa; Striatal compartment (Georges, F. (109) 187)

Buprenorphine; Cross-linking; Up-regulation; Down-regulation; mRNA expression (Belcheva, M.M. (111) 35)

δ-Opioid receptor blockade
Development; Naltrindole; Stress-induced-antinociception; Alfentanil; μ–δ-Receptor interaction (Antelo, Ma.T. (110) 127)

Opsin
Photoreceptor cell inner and outer segment; Trophic factor; Degeneration; Neurite (Sheedlo, H.J. (107) 57)

Optic fibers
L1; M6; Retinal ganglion cell (Mi, Z.-P. (106) 145)

Optic nerve
Superior colliculus; Development; Evoked response; Neurotransmitter; Synaptic transmission; Axonal conduction (Reece, L.J. (106) 25)

Development; Retinotectal pathway; GABA; Rat (Lim, C.H. (108) 299)

Organotypic culture
Dentate gyrus; Granule cell; Mossy cell; Synapse formation; Glutamate; GABA (Werner, M. (105) 9)

Ovine fetus
Cerebral cortex; Glutamate; Hypoxia; Microdialysis; Periventricular white matter (Henderson, J.L. (105) 287)

Ovulation
Delay; Postnatal; Behavior; Development; Brain (Kimler, B.F. (107) 49)

Oxidative metabolism
Cerebral hemineodecortication; Neuroplasticity; Age-at-lesion effect; Recovery of function (Hovda, D.A. (110) 39)

Oxotremorine-M
Bicuculline; Carbachol; Development; Epileptogenesis; McN-A-343 (Psarropoulou, C. (107) 285)

P

PACAP
Receptor; Development; Mouse; Embryo (Sheward, W.J. (109) 245)

Paraneoplastic disease
Neuronal differentiation; Autoimmune disorder; mRNA expression; In situ hybridization; RNA binding protein; Elavl4; RNase protection assay (Clayton, G.H. (109) 271)

Paraventricular nucleus
N-methyl-D-aspartate receptor; Neuroendocrine; Vasopressin; Magnocellular nuclei (Currás, M.C. (109) 1)

Parietal cortex
Stress protein; Hippocampus; Neonate; Morphology; Cyclooxygenase (Beasley, T.C. (105) 125)

Parkinson's disease
Neural Transplantation; Neuroglia; Ventral mesencephalon; Dopaminergic neuron (Quintana, J.G. (105) 147)

Partial denervation
Motor unit; Development; L-Dopa (Tyč, F. (109) 149)

Parvalbumin
Septum; Culture; Cholinergic; GABAergic; Phenotype; Calbindin D-28k; Acetylcholinesterase (Murata, Y. (105) 1)

N-Methyl-D-aspartate (NMDA) receptor; Glutamate; Striatum; Interneuron; MK-801; CGS-19755; Neurogenesis (Sadikot, A.F. (105) 35)

Calcium; Cerebellum; Development; Fish; Purkinje cell (Porteros, A. (109) 221)

Patch
Cholineacetyltransferase; Bromodeoxyuridine; Matrix (Van Vulpen, E.H.S. (109) 51)

Patch-clamp
NG108-15 cell line; Serum-free medium; Excitability; Neural protein; Neurotransmitter enzyme; Bromodeoxyuridine; Proliferation; Differentiation (Ma, W. (106) 155)

Pax-6
Bromodeoxyuridine; Forebrain; Genetic mutation (Brunjes, P.C. (110) 121)

Pb
Sp1; Development; Brain; Zinc; Finger; MBP; DNA-binding (Zawia, N.H. (107) 291)

PCR ELISA
Puberty; Rat hypothalamus; mRNA; GnRH-pulse generator (Roth, C. (110) 105)

Peptide
Hippocampal cholinergic neurostimulating peptide; HCNP; NMDA receptor; Hippocampus; Activity-dependent cue (Ojika, K. (106) 173)

Periodontium
Development; Masseter; Trigeminal; Mesencephalic; Motor; Mouse; Masticatory muscle; Teeth (Widmer, C.G. (108) 1)

Peripheral nervous system
Homeobox protein; Cell proliferation; Cell differentiation; Neural crest; Central nervous system (Xue, Z. (105) 59)

RT4; Neuroblastoma; Neural crest; Differentiation; MASH1; REST/NRSF (Donahue, L.M. (106) 1)

Periventricular white matter
Cerebral cortex; Glutamate; Hypoxia; Microdialysis; Ovine fetus (Henderson, J.L. (105) 287)

Persistence
Nicotinamide adenine dinucleotide phosphate-diaphorase neuron; Environmental enrichment; Histogenetic gradient; Somatosensory cortex; Rat (Fernández, V. (107) 299)

Pertussis toxin
Differentiation; Nerve growth factor; Somatostatin; Neurofilament; Protein kinase (Traina, G. (111) 223)

Phenotype
Septum; Culture; Cholinergic; GABAergic; Calbindin D-28k; Parvalbumin; Acetylcholinesterase (Murata, Y. (105) 1)

PHF-1
Microtubule associated proteins; Phosphorylation; Tau 1; Neuronal culture; Alzheimer's disease (Combs, C.K. (107) 143)

Phosphatidic acid
Choline; Phosphatidylcholine; Myelination; Synaptogenesis; Oleic acid; Phosphatidylinositol-4,5-bisphosphate (Zhao, D. (109) 121)

Phosphatidylcholine
Choline; Phosphatidic acid; Myelination; Synaptogenesis; Oleic acid; Phosphatidylinositol-4,5-bisphosphate (Zhao, D. (109) 121)

Phosphatidylinositol-4,5-bisphosphate
Choline; Phosphatidylcholine; Phosphatidic acid; Myelination; Synaptogenesis; Oleic acid (Zhao, D. (109) 121)

Phosphatidylinositol synthase
CDP-diacylglycerol synthase; Brain; Retina; Rat; In situ hybridization histochemistry (Saito, S. (110) 21)

Phosphoinositide 3-kinase
Cerebellar granule neuron progenitors; Proliferation; Mitogen; Insulin-like growth factor I; Glycogen synthase kinase 3 (Cui, H. (111) 177)

Phosphorylation
Microtubule associated proteins; PHF-1; Tau 1; Neuronal culture; Alzheimer's disease (Combs, C.K. (107) 143)

Photoreceptor cell inner and outer segment
Trophic factor; Degeneration; Opsin; Neurite (Sheedlo, H.J. (107) 57)

Pineal
Circadian rhythms; In situ hybridization; HIOMT; Melatonin; Postnatal development; Rat (Ribelayga, C. (110) 235)

Pinealocyte
Calcium; Calcium-binding protein; Synaptophysin; Development; Glial cell; Immunocytochemistry; Multiple labeling (Redecker, P. (105) 43)

Placenta
Biogenic amines; Dorsal root ganglia; Sympathetic ganglia; Heart; Gastrointestinal tract; Endocrine (Hansson, S.R. (110) 159)

Plasmalemmal channel
Pyramidal neocortical neuron; Rat brain slice; Purinoreceptor; Intracellular calcium store (Lalo, U. (111) 43)

Plasticity
Tectum; Glutamate; Excitatory amino acid receptor; AP5; Visual deprivation; Iontophoresis (Binns, K.E. (110) 241)

Polychlorinated biphenyl
Visual cortex; Hippocampus; Neurotoxicity; Long-term potentiation (Altmann, L. (110) 257)

Pontine nucleus
Atrial natriuretic peptide; C-type natriuretic peptide; Neuronal development; Gene expression; In situ hybridization histochemistry; Olfactory nucleus; Habenula (Ryan, M.C. (105) 251)

Postnatal
Ovulation; Delay; Behavior; Development; Brain (Kimler, B.F. (107) 49)

Postnatal development
Visual cortex; Lateral geniculate nucleus; Muscarinic M_1 receptor; Adrenergic α_1 receptor; Adrenergic α_2 receptor; Serotonergic 5-HT_{2c} receptor; Tetrodotoxin (Gu, Q. (106) 93)

Septohippocampal cholinergic neurons; Hippocampus; Acetylcholine release; Presynaptic muscarinic autoreceptors; Choline acetyltransferase; High-affinity choline uptake (Goldbach, R. (108) 23)

Septohippocampal cholinergic neuron; Septum; Acetylcholine release; Presynaptic muscarinic autoreceptor; Choline acetyltransferase; High-affinity choline uptake (Disko, U. (108) 31)

Hypoglossal nucleus; Synaptogenesis; Synapse elimination; Morphometry; Electron microscopy (O'Kusky, J.R. (108) 179)

Calcium-binding protein; Neuronal markers; Western blot; Immunohistochemistry; In situ hybridization; Roller tube culture (Sieg, F. (110) 83)

Autoradiography; Caudate–putamen; Dopamine D_4 receptor; Frontal cortex; Hippocampus (Tarazi, F.I. (110) 227)

Circadian rhythms; In situ hybridization; HIOMT; Melatonin; Pineal; Rat (Ribelayga, C. (110) 235)

Postsynaptic potential
Membrane property; Development; Action potential; Rectification (Sakata, Y. (108) 255)

Prefrontal cortex
Ectopia; BXSB mouse; Horizontal–vertical discrimination learning; Non-spatial learning; Long-term retention; Reference memory (Balogh, S.A. (111) 291)

Prematurity
AP-1 binding protein; c-*fos*; Dexamethasone (Slotkin, T.A. (111) 11)

Presynaptic
Hippocampus; Development; Adenosine; Excitatory postsynaptic potential (Dumas, T.C. (105) 137)

Presynaptic muscarinic autoreceptors
Septohippocampal cholinergic neurons; Hippocampus; Acetylcholine release; Postnatal development; Choline acetyltransferase; High-affinity choline uptake (Goldbach, R. (108) 23)

Septohippocampal cholinergic neuron; Septum; Acetylcholine release; Postnatal development; Choline acetyltransferase; High-affinity choline uptake (Disko, U. (108) 31)

Primary culture
Synapse formation; Drebrin; Alternative splicing; Cortical neuron (Hayashi, K. (111) 137)

Primary sensory area
Growth-associated protein; Association area; Monkey; Northern blotting (Oishi, T. (109) 87)

Program cell death
Caspase-3; CPP32; Apoptosis; Neuronal cell death; Site-directed antiserum (Urase, K. (111) 77)

Proliferation
NG108-15 cell line; Serum-free medium; Excitability; Patch-clamp; Neural protein; Neurotransmitter enzyme; Bromodeoxyuridine; Differentiation (Ma, W. (106) 155)

Depolarization; Cerebellar granule cell; Calcium channel; MAPK; Rat (Borodinsky, L.N. (107) 43)

Cerebellar granule neuron progenitors; Mitogen; Insulin-like growth factor I; Phosphoinositide 3-kinase; Glycogen synthase kinase 3 (Cui, H. (111) 177)

Proliferation and differentiation
Collagen; Developing cortex; Rat; Cell culture (Ali, S.A. (110) 31)

Pro-opiomelanocortin (POMC)
Melanocortin-4-receptor; Melanocyte-stimulating hormone; Development (Mountjoy, K.G. (107) 309)

Proprioception
Neurotrophin-3; Fusimotor innervation; Growth factor; Muscle spindle; Transgenic mice (Ringstedt, T. (111) 295)

Prosaposin
Prosaptide; Cerebellar granule cell; Neurotrophic factor; High potassium (Tsuboi, K. (110) 249)

Prosaptide
Prosaposin; Cerebellar granule cell; Neurotrophic factor; High potassium (Tsuboi, K. (110) 249)

Prostaglandin H synthase-1
Cyclooxygenase; Cerebral cortex; Hippocampus; Cerebellum; Ischemia; Asphyxia; Prostaglandin H synthase-2; Indomethacin; Nitric oxide synthase (Dégi, R. (107) 265)

Prostaglandin H synthase-2
Cyclooxygenase; Cerebral cortex; Hippocampus; Cerebellum; Ischemia; Asphyxia; Prostaglandin H synthase-1; Indomethacin; Nitric oxide synthase (Dégi, R. (107) 265)

Protein disulfide isomerase
R-cognin; Neuronal differentiation; Cell–cell recognition; Chick embryo (Pariser, H.P. (111) 1)

Protein gene product 9.5
Epidermal growth factor receptor; In situ hybridization; Immunohistochemistry; Development; Brain (Misumi, Y. (107) 1)

Protein kinase
Differentiation; Nerve growth factor; Somatostatin; Neurofilament; Pertussis toxin (Traina, G. (111) 223)

Protein kinase C
Developmental neurotoxicology; Protein phosphorylation (Haykal-Coates, N. (109) 33)

Protein phosphorylation
Nerve Growth Factor receptor; NGF; Developmental neurotoxicology; *trk*; Tropomyosin receptor kinase (Barone Jr., S. (109) 13)

Protein kinase C; Developmental neurotoxicology (Haykal-Coates, N. (109) 33)

Protein synthesis rate
Energy metabolism; Glutamate; Hippocampal slice; Ischemia; Long-term incubation; Mild hypothermia; Ontogeny (Berger, R. (105) 67)

Proteolipid protein
Myelination; Myelin basic protein; Rat CNS; Quantification; Myelin protein (Hamano, K. (108) 287)

Protomap
Cortical pattern formation; Slice culture; Neocortex; Claustrum; Endopiriform nuclei (Arimatsu, Y. (106) 71)

Proton magnetic resonance spectroscopy
Congenital hypothyroidism; Central nervous system ontogeny; Thyroxine; Myelination (Jagannathan, N.R. (109) 179)

Puberty
Rat hypothalamus; mRNA; PCR ELISA; GnRH-pulse generator (Roth, C. (110) 105)

Purinoreceptor
Pyramidal neocortical neuron; Rat brain slice; Intracellular calcium store; Plasmalemmal channel (Lalo, U. (111) 43)

Purkinje cell
α-Bungarotoxin; Granule cell; Embryonic; Neurotransmitter; Development (Kaneko, W.M. (105) 141)

Fetal alcohol syndrome; Cerebellum; Development; Ethanol; Motor (Thomas, J.D. (105) 159)

Calcium; Cerebellum; Development; Fish; Parvalbumin (Porteros, A. (109) 221)

Interneuron; Astrocyte; Dentate nucleus; Zonal organization (Yan, X.-X. (111) 253)

PVN
Satiety; Suckling; NST; Neurohypophysis (Nelson, E.E. (111) 301)

Pyramidal neocortical neuron
Rat brain slice; Purinoreceptor; Intracellular calcium store; Plasmalemmal channel (Lalo, U. (111) 43)

Pyramidal neuron
Nitric oxide synthase; NADPH diaphorase; Hippocampus; Chronic prenatal ethanol exposure; Fetal guinea pig (Kimura, K.A. (106) 39)

Q

Quantification
Myelination; Proteolipid protein; Myelin basic protein; Rat CNS; Myelin protein (Hamano, K. (108) 287)

Quantitative analysis
Somatostatin; Maturation; Lateral ventricle; Immunoreactivity; Radioimmunoassay (Fontanesi, G. (107) 91)

Quantitative RT-PCR
G-proteins; G_z α subunit; mRNA; Development; Mouse nervous system (Kelleher, K.L. (107) 247)

R

Radioimmunoassay
Somatostatin; Maturation; Lateral ventricle; Immunoreactivity; Quantitative analysis (Fontanesi, G. (107) 91)

Rat
Neonatal; Opioid; Anti-nociception; Analgesia; Morphine; Fentanyl; Meperidine (Thornton, S.R. (105) 269)

DRG neuron; Calretinin; Immunohistochemistry; Immunoblotting (Ambrus, A. (106) 101)

Central gray; Development; Defensive response; Kainate; Excitatory amino acid; Heart rate; Ultrasonic vocalization (Goodwin, G.A. (107) 11)

Depolarization; Proliferation; Cerebellar granule cell; Calcium channel; MAPK (Borodinsky, L.N. (107) 43)

Glucose deprivation; Ontogenesis; $[Ca^{2+}]_0$; Field potential; CA1; Hippocampal slice (Alici, K. (107) 71)

Corticotropin releasing factor; Receptor; Ventromedial hypothalamus; Ontogeny; Neuroendocrine (Eghbal-Ahmadi, M. (107) 81)

NADPH-diaphorase; Nitric oxide; Hippocampus; Dentate gyrus; Aging (Vaid, R.R. (107) 207)

Nicotinamide adenine dinucleotide phosphate-diaphorase neuron; Environmental enrichment; Persistence; Histogenetic gradient; Somatosensory cortex (Fernández, V. (107) 299)

Development; Opioid receptor; Spinal cord; Autoradiography; Morphine; Electrophysiology (Rahman, W. (108) 239)

Development; Optic nerve; Retinotectal pathway; GABA (Lim, C.H. (108) 299)

Development; Brain damage; Hypoxia–ischemia (Towfighi, J. (109) 169)

CDP-diacylglycerol synthase; Phosphatidylinositol synthase; Brain; Retina; In situ hybridization histochemistry (Saito, S. (110) 21)

Collagen; Developing cortex; Proliferation and differentiation; Cell culture (Ali, S.A. (110) 31)

Adenosine; Development; Hippocampus; Synaptic inhibition (Descombes, S. (110) 51)

Circadian rhythms; In situ hybridization; HIOMT; Melatonin; Pineal; Postnatal development (Ribelayga, C. (110) 235)

Corticotropin releasing hormone; Glutamate receptors; Seizure (Brunson, K.L. (111) 119)

Neuronal nitric oxide synthase; nNOS; Embryo; Development (Santacana, M. (111) 205)

Rat brain slice
Pyramidal neocortical neuron; Purinoreceptor; Intracellular calcium store; Plasmalemmal channel (Lalo, U. (111) 43)

Rat cerebellum
Morphometric analysis; Calbindin; Immunocytochemistry; Intracellular calcium store; R-type Ca^{2+} channel (Reitstetter, R. (107) 165)

Rat CNS
Myelination; Proteolipid protein; Myelin basic protein; Quantification; Myelin protein (Hamano, K. (108) 287)

Rat hippocampal neuron
Excitotoxicity; Development; Cell calcium; Mouse cerebellar granule cell; Fura-2 (Adamec, E. (108) 101)

Rat hypothalamus
Differentiation; Catecholamine; Tyrosine hydroxylase; Gestational diabetes; Body weight regulation (Plagemann, A. (109) 201)

Puberty; mRNA; PCR ELISA; GnRH-pulse generator (Roth, C. (110) 105)

Rat spinal cord
Hypergravity; Development; Monoaminergic projection (Giménez y Ribotta, M. (111) 147)

Rat telencephalon
Inhibitory interneuron; GABA; Apoptosis; Muscimol; Aggregate cell culture (Honegger, P. (105) 219)

R-cognin
Protein disulfide isomerase; Neuronal differentiation; Cell–cell recognition; Chick embryo (Pariser, H.P. (111) 1)

Receptor
Corticotropin releasing factor; Ventromedial hypothalamus; Ontogeny; Neuroendocrine; Rat (Eghbal-Ahmadi, M. (107) 81)

Cell culture; Cell death; Cerebral cortex; Fetal alcohol syndrome; NGF (Seabold, G.K. (108) 139)

PACAP; Development; Mouse; Embryo (Sheward, W.J. (109) 245)

μ–δ-Receptor interaction
Development; δ-Opioid receptor blockade; Naltrindole; Stress-induced-antinociception; Alfentanil (Antelo, Ma.T. (110) 127)

Recovery of function
Cerebral hemineodecortication; Neuroplasticity; Oxidative metabolism; Age-at-lesion effect (Hovda, D.A. (110) 39)

Rectification
Membrane property; Development; Action potential; Postsynaptic potential (Sakata, Y. (108) 255)

Reference memory
Ectopia; Prefrontal cortex; BXSB mouse; Horizontal–vertical discrimination learning; Nonspatial learning; Long-term retention (Balogh, S.A. (111) 291)

Regeneration
Development; Brain damage; Neuroepithelium; Cell kinetics (Oyanagi, K. (108) 229)

REST/NRSF
RT4; Neuroblastoma; Neural crest; Peripheral nervous system; Differentiation; MASH1 (Donahue, L.M. (106) 1)

Retina
Development; Teleost; Cone photoreceptor; Rod photoreceptor; Müller cell; GABA; Vimentin (Hagedorn, M. (108) 217)

CDP-diacylglycerol synthase; Phosphatidylinositol synthase; Brain; Rat; In situ hybridization histochemistry (Saito, S. (110) 21)

Retina development
AII amacrine cell; Rod pathway; Calcium-binding protein (Casini, G. (111) 107)

Retinal development
Apoptosis; Teleost; Embryonic retinogenesis; TUNEL (Hoke, K.L. (111) 143)

Retinal ganglion cell
L1; M6; Optic fibers (Mi, Z.-P. (106) 145)

Retinogeniculate development
Binocular competition; Lateral geniculate nucleus (Garraghty, P.E. (107) 227)

Retinohypothalamic
Apoptosis; Circadian; Neuronal death; Stereological; Suprachiasmatic (Müller, C. (110) 203)

Retinoic acid
Gene expression; Development; Homeobox (Lindberg, C. (110) 215)

Retinoic acid catabolism
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GAP-43; Inositol 1,4,5-trisphosphate; MARCKS; Phospholipase Cγ1; Protein kinase C; Signal transduction (Ishiguro, M. (53) 24)

Alzheimer's disease; β-Peptide; Anticholinesterase; Neuroblastoma cell; Protein transport; Protein processing; THA (Lahiri, D.K. (62) 131)

Analgesia
Antisense oligodeoxynucleotide; cAMP; G-protein; Immunoblotting; Morphine; mRNA; Mouse; Opioid potency; RT-PCR; Striatum (Shen, J. (59) 247)

Anatomical localization
Nicotinic acetylcholine receptor; α4 Subunit; Human fetal brain; In situ hybridization; Fragile X syndrome (Agulhon, C. (58) 123)

Anesthetic mechanisms
Intravenous anesthetic; Etomidate; Propofol; Ketamine; Patch-clamp-technique; Whole cell; Potassium; Extracellular concentration; Potassium current; Human neuronal (Friederich, P. (60) 301)

Angiotensin
Amino terminus; Mutagenesis; Ligand binding (Yee, D.K. (57) 325)

Angiotensin II
AT_2 receptor; PC12W cell; Nerve growth factor; Neurite extension; Microtubule (Stroth, U. (53) 187)

Receptor; Regeneration; RT-PCR (Gallinat, S. (57) 111)

Angiotensin II receptor
Brain; Pineal gland; Angiotensinogen; Renin; ACE; Renin–angiotensin system (Baltatu, O. (54) 237)

Angiotensinogen
Brain; Pineal gland; Angiotensin II receptor; Renin; ACE; Renin–angiotensin system (Baltatu, O. (54) 237)

Angiotensin receptor
Renin–angiotensin system; AT_1 receptor antagonist; Gerbil; Receptor sequence; In situ hybridization (Moriuchi, R. (60) 234)

Annexin
Lipocortin; Astrocyte; Neurotrophic action (Mizuno, H. (60) 28)

ANP-A receptor
Inner ear; Natriuretic peptide; ANP-B receptor; ANP-C receptor; Polymerase chain reaction (Suzuki, M. (55) 165)

ANP-B receptor
Inner ear; Natriuretic peptide; ANP-A receptor; ANP-C receptor; Polymerase chain reaction (Suzuki, M. (55) 165)

ANP-C receptor
Inner ear; Natriuretic peptide; ANP-A receptor; ANP-B receptor; Polymerase chain reaction (Suzuki, M. (55) 165)

Antibody
Serotonin; Receptor; Immunocytochemistry; Rat (Hamada, S. (54) 199)

Metabotropic glutamate receptor; Immunohistochemistry; Western blot; Cerebellar cortex (Phillips, T. (57) 132)

Anticholinesterase
Alzheimer's disease; β-Amyloid precursor protein; β-Peptide; Neuroblastoma cell; Protein transport; Protein processing; THA (Lahiri, D.K. (62) 131)

Antidepressant
Electroconvulsive shock; BDNF; Rat brain; mRNA; In situ hybridisation (Zetterström, T.S.C. (57) 106)

NGFI-A; Glucocorticoid receptor; Hippocampus; Transcription factor (Johansson, I.-M. (62) 92)

Antinociception
Morphine; Tolerance; Protein kinase A; μ-Opioid receptor (Bernstein, M.A. (55) 237)

Antioxidant
Nuclear factor-κB; Cerebral infarction; *N*-acetylcysteine; Endothelial cell adhesion molecule (Carroll, J.E. (56) 186)

Antipsychotic
Schizophrenia; c-*fos*; Neurotensin; Dopamine; D2 receptor (Meng, Z.-h. (61) 39)

Antipsychotic drugs
Schizophrenia; *N*-methyl-D-aspartate (NMDA); Gene expression; mRNA; Flupenthixol; Multiprobe oligonucleotide solution hybridization (MOSH) (Chen, A.C.-H. (54) 92)

Antipsychotics
Caudate-putamen; Peptide expression; Neuroleptics; Dopamine (Zahm, D.S. (59) 196)

Antisense
Calreticulin; Apoptosis; Calcium; NG-108-15 cell; Differentiation (Johnson, R.J. (53) 104)

GluR2; Knockdown; Hippocampus; Development; Neurodegeneration (Friedman, L.K. (61) 224)

Antisense oligodeoxynucleotide
Immediate-early gene; c-*fos*; Kindling; Gene expression; Seizure (Chiasson, B.J. (57) 248)

GABA receptor; Cocaine; Locomotion; Stereotypy (Peris, J. (57) 310)

Analgesia; cAMP; G-protein; Immunoblotting; Morphine; mRNA; Mouse; Opioid potency; RT-PCR; Striatum (Shen, J. (59) 247)

Antisense oligonucleotide
Dopamine receptor; Immediate-early gene; 6-Hydroxydopamine; Striatum (Crocker, S.J. (53) 69)

Gonadotropin-releasing hormone; Gonadotropin-releasing hormone receptor; Estrogen; Progesterone; Gene expression; Preoptic area; Mediobasal hypothalamus; Rat (Seong, J.Y. (53) 226)

c-*fos*; Dentate gyrus; Kainic acid; Opioid gene; Seizure; Transcription factor; Regulation of gene expression (Ziółkowska, B. (54) 243)

Antisense oligonucleotides
Phosphorothioates; Corticotropin releasing factor type-2 receptor; Ribonuclease H (Peng Ho, S. (62) 1)

AP-1
Dopamine; Immediate early gene; Striatum; FosB; Mouse (Pérez-Otaño, I. (53) 41)

Oxidative stress; Phosphoinositide hydrolysis; NFκB; Glutathione; Diamide (Li, X. (53) 196)

Tyrosine hydroxylase; Catecholamine; CBP; CREB (Ghee, M. (55) 101)

Lithium; Gene expression; GSK-3; Manic depressive; PKC (Yuan, P.-X. (58) 225)

Astrocytes; Calcium; CREB; ENKCRE-2; Mitogen activated protein kinase; Proenkephalin; Prostaglandin E_2; Protein kinase A; Protein kinase C (Won, J.-S. (60) 203)

Apoptosis
Calreticulin; Calcium; Antisense; NG-108-15 cell; Differentiation (Johnson, R.J. (53) 104)

DP5; BH3 domain; In situ hybridization; Developing nervous system; Gene expression (Kanazawa, K.-y. (54) 316)

Brain infarction; Permanent focal ischemia; Neurotrophin; Neuroprotection; Transgenic mouse (Guégan, C. (55) 133)

Programmed cell death; Bax; Bcl-2; Kindling; Epilepsy; Hippocampus (Zhang, L.-X. (55) 198)

c-*fos*; c-*jun*; Cell death; Hypoxia–ischemia; Glucocorticoid; Newborn; Rat (Macaya, A. (56) 29)

Capsaicin; Vanilloid receptor; Resiniferatoxin; Glial cell; Differentiation (Bíró, T. (56) 89)

Ischemia; Proto-oncogene; Tumor suppressor gene; Selective vulnerability (McGahan, L. (56) 133)

Ischemia; Immediate-early gene; Selective vulnerability (McGahan, L. (56) 146)

Alzheimer's disease; Programmed cell death; Amyloid precursor protein; Amyloid precursor-like protein 2 (Araki, W. (56) 169)

Bcl-2; Caspase; Hypoxia; Insulin-like growth factor-1; Basic fibroblast growth factor (Tamatani, M. (58) 27)

Developing brain neuron; Hypoxia; Pre-conditioning; Mitosis; Bcl-2; PCNA (Bossenmeyer-Pourié, C. (58) 237)

Transforming growth factor-β; Neuroprotection; Bcl-2 family (Kim, E.S. (62) 122)

APP717
Alzheimer's disease; Presenilin-1; Amyloid deposition; Insoluble (Mori, H. (56) 178)

***β*APP promoter**
Alzheimer's disease; Beta-amyloid precursor protein; Gene regulation; Gel shift assay; NF-κB; Transcription factor (Lahiri, D.K. (58) 112)

Arachidonic acid
Nicotinic acetylcholine receptor; Site-directed mutagenesis; Protein kinase C; Phosphorylation; Voltage-clamp; *Xenopus* oocyte (Nishizaki, T. (57) 173)

Araguspongine E / xestospongin C
Lysophosphatidic acid; Phospholipase C; Inositol trisphosphate receptor; Signal transduction; *Xenopus* oocyte (Kakizawa, K. (61) 232)

Arcuate nucleus
β-endorphin; Female guinea pig; In situ hybridization histochemistry; Median eminence; Morphine pellet (Fang, Y. (55) 1)

Glucose transporter; Hypothalamus; Insulin secretion (Leloup, C. (57) 275)

ARF4L
Brain ischemia; Vesicle transport; Hypoxia; Differential display (Katayama, T. (56) 66)

Aripiprazole
Haloperidol; Dopamine receptor; [^{3}H]Spiperone-binding; RNase protection assay; Rat pituitary (Inoue, A. (55) 285)

Aromatase
Serotonin; 5-HT_{2A} receptor; Frontal, cingulate and piriform cortex; Nucleus accumbens; Caudate-putamen (Sumner, B.E.H. (59) 205)

Astrocyte
Oligodendrocyte; RT-PCR; Immunohistochemistry (García-Barcina, J.M. (53) 270)

κ-opioid receptor; Oligodendrocytes; Microglia; Growth factors; Cyclic AMP (Tryoen-Toth, P. (55) 141)

Amyloid precursor protein; Amyloid beta; Alzheimer's disease; Secretase; Smooth muscle cells (Meckelein, B. (55) 181)

Adhesion protein; Brain; Hippocampus; Magnocellular nuclei; Long-term potentiation (Pinkstaff, J.K. (55) 265)

Vasopressin; *NGFI-A*; *zif / 268*; ZENK; Immediate early response gene; Hippocampus; Glial cell; Learning and memory (Diaz Brinton, R. (57) 73)

Microglia; Interferon-inducible protein 10; Differential display; LPS; Fever; Inflammation; Rat brain (Ren, L.-q. (59) 256)

Lipocortin; Annexin; Neurotrophic action (Mizuno, H. (60) 28)

AP-1; Calcium; CREB; ENKCRE-2; Mitogen activated protein kinase; Proenkephalin; Prostaglandin E_2; Protein kinase A; Protein kinase C (Won, J.-S. (60) 203)

5-HT receptor; Reverse transcriptase–polymerase chain reaction (RT-PCR); cAMP (Hirst, W.D. (61) 90)

Transgenic mouse; GFAP; Vimentin; Taurine; RVD (regulatory volume decrease) (Ding, M. (62) 77)

Alzheimer's disease; Glioblastoma multiforme; Growth factor; Hypoxia; Immunocytochemistry; Ischemia; Vascular endothelial growth factor; Vascular smooth muscle cell (Kalaria, R.N. (62) 101)

Astrocytic differentiation
Protein kinase C (PKC); GFAP; Glutamine synthetase; Proliferation (Brodie, C. (56) 108)

Astrogliosis
Brain injury; IGF-1 mRNA (Li, X.-s. (57) 92)

Ataxia
Purkinje cell; Cerebellar granule cell; In situ hybridization histochemistry; Immunocytochemistry; Myoclonus; Ion channel mutation (Lau, F.C. (59) 93)

ATP
Adenylate kinase; GTP; Liver; Nasal cavity; Hippocampus (Yoneda, T. (62) 187)

AT_2 receptor
Angiotensin II; PC12W cell; Nerve growth factor; Neurite extension; Microtubule (Stroth, U. (53) 187)

AT_1 receptor antagonist
Renin–angiotensin system; Angiotensin receptor; Gerbil; Receptor sequence; In situ hybridization (Moriuchi, R. (60) 234)

Atypical antipsychotic drugs
G protein-linked receptor; Schizophrenia (Qian, I.H.-P. (53) 339)

Audiogenic seizure
GABA/benzodiazepine receptor; γ-Aminobutyric acid; Alcohol; Alternative splicing (Liu, Z.F. (59) 84)

Autocrine
NGF; PC12 cell; TrkA; Neurite outgrowth; RT-PCR (Gill, J.S. (57) 123)

Autofeedback
Prolactin; Immediate early gene; Hypothalamus (Sagrillo, C.A. (61) 62)

Autoradiography
G-protein coupling; NPY receptor subtype; Rat brain; GTPγ[^{35}S] (Primus, R.J. (58) 74)

Axotomy
Glial cell line-derived neurotrophic factor; GDNFR-α; c-*ret*; Receptor tyrosine kinase; Motor neuron; In situ hybridization histochemistry (Burazin, T.C.D. (55) 331)

c-Jun; Dorsal root ganglia; Injury; Ischemia; Rat (Martin-Villalba, A. (62) 158)

B

Bad
Raf-1; Erk; Ras; Nerve regeneration; Differential display; Rat (Namikawa, K. (55) 315)

β-amyloid protein
Alzheimer's disease; NF-κB; IκB-α; Glia activation (Bales, K.R. (57) 63)

Barbiturate
VEGF; Hypoxia; Endothelial cell (Fischer, S. (60) 89)

Barrel cortex
Brain-derived neurotrophic factor; Immediate-early gene (Nanda, S. (62) 216)

Basal forebrain
Rat; Cholinergic; Neurons; Nerve growth factor; mRNA (Pongrac, J.L. (62) 25)

Basal ganglia
In situ hybridization; Enkephalin; Dynorphin; Substance P; GABA; 5-Hydroxytryptamine (Mijnster, M.J. (54) 64)

Huntington's disease; GABAergic transmission (Caruncho, H.J. (57) 301)

6-hydroxydopamine; Dopamine receptor; Sensitization; Turning behavior; In situ hybridization (Van de Witte, S.V. (61) 219)

Basic fibroblast growth factor
Apoptosis; Bcl-2; Caspase; Hypoxia; Insulin-like growth factor-1 (Tamatani, M. (58) 27)

Brain-derived neurotrophic factor; Neurotrophin-3; Growth-associated protein (GAP)-43; Microtubule-associated protein (MAP)2 (Kuroda, Y. (59) 35)

Basic helix–loop–helix protein
Phosphorylation; Immunohistochemistry (Kume, H. (60) 107)

Batrachotoxin
Human brain; Sodium channel; Planar lipid bilayer; Voltage-clamp (Frenkel, C. (59) 22)

Bax
Apoptosis; Programmed cell death; Bcl-2; Kindling; Epilepsy; Hippocampus (Zhang, L.-X. (55) 198)

Bcl-2
Apoptosis; Programmed cell death; Bax; Kindling; Epilepsy; Hippocampus (Zhang, L.-X. (55) 198)

Apoptosis; Caspase; Hypoxia; Insulin-like growth factor-1; Basic fibroblast growth factor (Tamatani, M. (58) 27)

Developing brain neuron; Hypoxia; Pre-conditioning; Apoptosis; Mitosis; PCNA (Bossenmeyer-Pourié, C. (58) 237)

bcl-2
Glutamate; Oxidative stress; Pheochromocytoma; Thiol; *cis*-parinaric acid (Tyurin, V.A. (60) 270)

Bcl-2 family
Transforming growth factor-β; Apoptosis; Neuroprotection (Kim, E.S. (62) 122)

BDNF
Membrane depolarization; Cerebellar granule cell; Cell survival; Calcium (Ichikawa, D. (56) 218)

Electroconvulsive shock; Rat brain; Antidepressant; mRNA; In situ hybridisation (Zetterström, T.S.C. (57) 106)

Kainic acid; Full-length TrkB; Truncated TrkB; Hippocampus (Goutan, E. (59) 154)

NGF; Northern blot; In situ hybridization; Western blot; Immunocytochemistry; Cell culture; Vaccinia virus infection (Marcinkiewicz, M. (59) 229)

*trk*B; Quantitative RT-PCR; Ribonuclease protection assay; Hippocampal formation (Tokuyama, W. (62) 206)

Bed nucleus stria terminalis
Tachykinin; Preprotachykinin-A gene; Sardinian alcohol-preferring rat; Sardinian alcohol-nonpreferring rat; Olfactory tubercle (Pompei, P. (56) 277)

Behavior
Dynorphin; Substance P; Enkephalin; ACPD; MCPG; Caudoputamen; Accumbens (Wang, J.Q. (54) 262)

Conflict; GABA; Hybridization (Zhang, L. (58) 16)

Behavioral sensitization
Striatum; Nucleus accumbens; Mesencephalon; RNase protection assay; Dopamine (Michelhaugh, S.K. (62) 35)

β-endorphin
Arcuate nucleus; Female guinea pig; In situ hybridization histochemistry; Median eminence; Morphine pellet (Fang, Y. (55) 1)

Benzodiazepine (BDZ) receptor
Alcoholism; Diazepam binding inhibitor (DBI); DBI mRNA; Ethanol inhalation; Ethanol withdrawal (Katsura, M. (54) 124)

Bergmann glia
Müller glia; Glutamate receptor; Gene expression (López, T. (58) 40)

17β-estradiol
Amygdala; Hypothalamus; Steroid hormone; In situ hybridization (Österlund, M. (54) 175)

Beta amyloid precursor protein
Alzheimer's; Interleukin-6; Soluble interleukin-6 receptor (Ringheim, G.E. (55) 35)

Beta-amyloid precursor protein
Alzheimer's disease; Gene regulation; βAPP promoter; Gel shift assay; NF-κB; Transcription factor (Lahiri, D.K. (58) 112)

Beta subunits
Voltage-dependent calcium channels; Human hippocampus; Immunocytochemistry; In situ hybridization (Day, N.C. (60) 259)

BH3 domain
DP5; In situ hybridization; Developing nervous system; Apoptosis; Gene expression (Kanazawa, K.-y. (54) 316)

Binding
Leech; Dopamine1-like receptor; 5-HT3-like receptor; Microsequencing; Cloning; Localization (Salzet, B. (58) 47)

Bipolar disorder
Sodium valproate; Lithium chloride; c-Fos; c-Jun; Fos-related antigen; Activity protein-1 binding (Asghari, V. (58) 95)

Blood–brain barrier
Gene expression; Brain; Ischemia; Testis (Tsukamoto, H. (58) 170)

Amiloride; Cerebral cortex; Cerebral microvessel; Choroid plexus; Na^+/H^+ exchanger; Methyl-isobutyl amiloride (Kalaria, R.N. (58) 178)

Gene expression; Brain tumor; Post-transcription; mRNA (Boado, R.J. (59) 109)

Body weight loss
Morphine withdrawal; Plasma corticosterone elevation; Preproenkephalin mRNA; Caudal periaqueductal gray; In situ hybridization; Rat (Fukunaga, Y. (55) 221)

Bone morphogenetic protein-2 (BMP-2)
Neurotrophic factor; Nerve growth factor; Neurotrophin-3; TrkA; TrkC; Retinoic acid (Kobayashi, M. (53) 206)

Bovine
Galanin; Gene expression; Luciferase; mRNA; Promoter; Transgenic mouse (Rökaeus, Å. (60) 150)

Bovine CRMP-2
Neural development; Protein kinase; *unc*-33; Chromosome mapping (Kamata, T. (54) 219)

Brain
Cytokine receptors; Interleukin-2; Neurobiology; Molecular cloning; In situ (Petitto, J.M. (53) 152)

β-Galactosidase; Substantia nigra; Transgenic mouse; Tyrosinase; Neuromelanin (Tief, K. (53) 307)

Pineal gland; Angiotensinogen; Angiotensin II receptor; Renin; ACE; Renin–angiotensin system (Baltatu, O. (54) 237)

Ca^{2+}/calmodulin-dependent protein kinase kinase; In situ hybridization histochemistry; Rat (Sakagami, H. (54) 311)

Gene expression; Glia; Neurons; Rat; Stroke (Lin, T.-N. (55) 71)

In situ hybridization; Depression; Serotonin receptor; Steroid hormone; Estrogen (Österlund, M.K. (55) 169)

Adhesion protein; Astrocyte; Hippocampus; Magnocellular nuclei; Long-term potentiation (Pinkstaff, J.K. (55) 265)

Cyclooxygenase-2; Prostaglandin; Fever; In situ hybridization; Endothelial cell; Tumor necrosis factor (Cao, C. (56) 45)

Dark-rearing; Visual; Critical period; *SKP1*; Cell cycle (Uro-Coste, E. (56) 192)

Fetus; Newborn; Adult; Development; EP (Tai, T.-C. (57) 161)

Spectrin; Comprehensive cDNA analysis; Large protein; Gene discovery (Ohara, O. (57) 181)

Gene expression; Blood–brain barrier; Ischemia; Testis (Tsukamoto, H. (58) 170)

IGF; IGFBP; Rat; Growth factor; Hypoxia–ischemia; Neurone; Glia (Beilharz, E.J. (59) 119)

Paired box gene; PAX-6; Alternative promoter; Gene transcription; Human (Okladnova, O. (60) 177)

Brain damage
Nerve regeneration; Redox regulation; Oxidative stress (Mansur, K. (62) 86)

Nerve regeneration; Tra2β; RNA splicing (Kiryu-Seo, S. (62) 220)

Brain-derived neurotrophic factor
Synaptic plasticity; NMDA receptor; Postsynaptic; trkB (Lin, S.-Y. (55) 20)

Exon; Seizure; Glucocorticoid; In situ hybridization (Lauterborn, J.C. (55) 81)

Tyrosine kinase receptor; Light–dark cycle; Cerebral cortex; Hippocampus; RT-PCR (Bova, R. (57) 321)

Neurotrophin-3; Basic fibroblast growth factor; Growth-associated protein (GAP)-43; Microtubule-associated protein (MAP)2 (Kuroda, Y. (59) 35)

Exon; Exercise; Rat; Hippocampus (Oliff, H.S. (61) 147)

Immediate-early gene; Barrel cortex (Nanda, S. (62) 216)

Brain development
Cerebellum; DNA repair; Cell nucleus; Deamination; DNA replication (Marietta, C. (53) 317)

c-*fos*; Gene expression; Striatal compartment; Dopamine D1 receptor; Caudal striatum (Arnauld, E. (60) 127)

Brain infarction
Apoptosis; Permanent focal ischemia; Neurotrophin; Neuroprotection; Transgenic mouse (Guégan, C. (55) 133)

Brain injury
Microglia; NMDA; Chemokine; Excitotoxicity; Hippocampus (Szaflarski, J. (55) 306)

IGF-1 mRNA; Astrogliosis (Li, X.-s. (57) 92)

Brain ischemia
Presenilin-1; Alzheimer's disease; In situ hybridization (Tanimukai, H. (54) 212)

ARF4L; Vesicle transport; Hypoxia; Differential display (Katayama, T. (56) 66)

ORP150; Degenerating neuron; Ischemic core; Stress protein; Chaperon (Matsushita, K. (60) 98)

Brain tumor
Gene expression; Blood–brain barrier; Post-transcription; mRNA (Boado, R.J. (59) 109)

Butyrate
Trapoxin; MAP kinase; Kinase inhibitor (Espinos, E. (56) 118)

C

Ca^{2+}/calmodulin-dependent protein kinase kinase
In situ hybridization histochemistry; Rat; Brain (Sakagami, H. (54) 311)

CAD protein
PA700; Protease; Multicatalytic proteinase; Human immunodeficiency virus (Nakamura, T. (53) 321)

C1 adrenaline neuron
Rostral ventrolateral medulla; RVL; NAT; Immunohistochemistry; Single-cell RT-PCR (Comer, A.M. (62) 65)

Ca^{2+} influx
Nitric oxide; Voltage-dependent Ca^{2+} channel; Cyclic GMP; Cerebral cortical neuron (Ohkuma, S. (54) 133)

Calbindin
Dopamine receptor; Gene expression; Cortical interneuron; Parvalbumin (Le Moine, C. (58) 231)

Calcium
Calreticulin; Apoptosis; Antisense; NG-108-15 cell; Differentiation (Johnson, R.J. (53) 104)

Hippocampal neuron; Calpain; Spectrin; Excitotoxicity; Imaging; Primary culture (Adamec, E. (54) 35)

Membrane depolarization; BDNF; Cerebellar granule cell; Cell survival (Ichikawa, D. (56) 218)

Sodium channels; mRNA; Neuron; Gene expression; cAMP; Proenkephalin; Scorpion toxins (Giraud, P. (56) 238)

AP-1; Astrocytes; CREB; ENKCRE-2; Mitogen activated protein kinase; Proenkephalin; Prostaglandin E_2; Protein kinase A; Protein kinase C (Won, J.-S. (60) 203)

Calcium ATPase
Alcoholism; Ischemia; Stroke; In situ hybridization; Inositol 1,4,5-triphosphate (Xia, J. (56) 22)

Calcium binding protein
Iba1; Microglia; Facial nerve axotomy; Immunocytochemistry; Immunohistochemistry (Ito, D. (57) 1)

Calretinin mRNA; Human thalamus; In situ hybridization technique; Sensorimotor integration; Postmortem human tissue (Cicchetti, F. (54) 1)

Calcium-calmodulin-dependent protein kinase II
Microtubule-associated protein 2; Long-term potentiation; Rat; Gene expression (Roberts, L.A. (56) 38)

Calcium current
L-type channel; Trisomy 16; Down syndrome; Na^+/myo-inositol transporter; Hippocampal neuron; Mouse (Galdzicki, Z. (56) 200)

Calcium homeostasis
Endoplasmic reticulum; Gadd153 expression; Neuronal cell culture; Rat; Thapsigargin; Transient cerebral ischemia (Paschen, W. (60) 115)

Calcium imaging
MPP^+; A23187; Serum withdrawal; Glutamate (McMahon, A. (54) 56)

Calmodulin
Peptide; Purification; Cloning; IQ motif; MBF1 (Smith, M.L. (62) 12)

Calpain
Calpastatin; In situ hybridization; Hippocampus; Spinal cord; *Mnd* mice (Li, J. (53) 174)

Hippocampal neuron; Spectrin; Excitotoxicity; Imaging; Calcium; Primary culture (Adamec, E. (54) 35)

Calpastatin
Calpain; In situ hybridization; Hippocampus; Spinal cord; *Mnd* mice (Li, J. (53) 174)

Calreticulin
Apoptosis; Calcium; Antisense; NG-108-15 cell; Differentiation (Johnson, R.J. (53) 104)

Calretinin mRNA
Calcium-binding proteins; Human thalamus; In situ hybridization technique; Sensorimotor integration; Postmortem human tissue (Cicchetti, F. (54) 1)

cAMP
Pituitary adenylate cyclase activating polypeptide (PACAP); Vasoactive intestinal peptide (VIP); Receptor; Retina; mRNA; Inositol phospholipid hydrolysis (D'Agata, V. (54) 161)

Cannabinoid receptor (CB1) mRNA
Tolerance; Chronic Δ^9-THC; Receptor desensitization; Semi-quantitative RT-PCR; Rat brain (Zhuang, S.-y. (62) 141)

Capsaicin
Vanilloid receptor; Resiniferatoxin; Glial cell; Apoptosis; Differentiation (Bíró, T. (56) 89)

Carboxyl terminus
Etorphine; μ- and δ-opioid receptor; Down-regulation; Immunofluorescence (Afify, E.A. (54) 24)

Carrier-mediated release
Hippocampal synaptosomes; Nitric oxide; γ-Aminobutyric acid; NNC-711; Exocytotic release (Sequeira, S.M. (55) 337)

Caspase
Apoptosis; Bcl-2; Hypoxia; Insulin-like growth factor-1; Basic fibroblast growth factor (Tamatani, M. (58) 27)

Catecholamine
Tyrosine hydroxylase; CBP; CREB; AP-1 (Ghee, M. (55) 101)

c-*fos*; Immediate early response gene; Transcription factor; Activator protein-1 complex; Tyrosine hydroxylase; Adaptation (Mishra, R.R. (59) 74)

Caudal periaqueductal gray
Morphine withdrawal; Body weight loss; Plasma corticosterone elevation; Preproenkephalin mRNA; In situ hybridization; Rat (Fukunaga, Y. (55) 221)

Caudal striatum
c-*fos*; Gene expression; Striatal compartment; Brain development; Dopamine D1 receptor (Arnauld, E. (60) 127)

Caudate
Human D_4 dopamine receptor; Schizophrenia; Ribonuclease protection assay; Frontal cortex (Stefanis, N.C. (53) 112)

Caudate putamen
Suprachiasmatic nuclei; Cerebral cortex; Circadian rhythm; Protein kinase C; In situ hybridization histochemistry (Cagampang, F.R.A. (53) 277)

Peptide expression; Antipsychotics; Neuroleptics; Dopamine (Zahm, D.S. (59) 196)

Serotonin; 5-HT_{2A} receptor; Frontal, cingulate and piriform cortex; Nucleus accumbens; Aromatase (Sumner, B.E.H. (59) 205)

Caudoputamen
Dynorphin; Substance P; Enkephalin; ACPD; MCPG; Accumbens; Behavior (Wang, J.Q. (54) 262)

CB
Glaucoma; THC; Gene expression; RT-PCR; Eye (Porcella, A. (58) 240)

CBF/NF-Y
Tryptophan hydroxylase; Serotonin; Transcription; CCAAT box (Teerawatanasuk, N. (55) 61)

CBP
Tyrosine hydroxylase; Catecholamine; CREB; AP-1 (Ghee, M. (55) 101)

CCAAT box
Tryptophan hydroxylase; Serotonin; Transcription; CBF/NF-Y (Teerawatanasuk, N. (55) 61)

cDNA
Hypoxia/reoxygenation; Yeast two-hybrid; RNA splicing (Imai, Y. (53) 33)

cGMP; Phosphodiesterase; Cone; Photoreceptor; Signal transduction; Polyclonal antibody; mRNA expression; Ground squirrel (Von Schantz, M. (54) 327)

PCPTP1-Ce; *PCPTP1*; Protein tyrosine phosphatase; Purkinje cell; Cerebellum; In situ hybridization; Immunohistochemistry (Watanabe, Y. (58) 83)

cDNA cloning
AMPA-glutamate receptor; Teleost fish; Electrophysiology (Chang, H.-M. (57) 211)

CEBP
Transcription factor; Microglia (Walton, M. (61) 11)

Cell adhesion
Phosphorylation; Dephosphorylation; Development; Mouse (McAndrew, P.E. (56) 9)

Cell adhesion molecule
Protein tyrosine phosphatase; Leukocyte common antigen related gene; LAR; Proximal membrane; PC12 cell (Honkaniemi, J. (60) 1)

Cell culture
NGF; BDNF; Northern blot; In situ hybridization; Western blot; Immunocytochemistry; Vaccinia virus infection (Marcinkiewicz, M. (59) 229)

Cell cycle
Brain; Dark-rearing; Visual; Critical period; *SKP1* (Uro-Coste, E. (56) 192)

Cell death
c-*fos*; c-*jun*; Apoptosis; Hypoxia–ischemia; Glucocorticoid; Newborn; Rat (Macaya, A. (56) 29)

c-Jun; c-Fos; NF-κB; DNA fragmentation; Cell free system (Solovyan, V. (62) 43)

TNF; 75 kDa TNFR; Neuron (Sipe, K.J. (62) 111)

Cell free system
Cell death; c-Jun; c-Fos; NF-κB; DNA fragmentation (Solovyan, V. (62) 43)

Cell line
Somatostatin; Somatostatin receptor 2; Immunocytochemistry; Glycosylation (Hervieu, G. (58) 138)

Cell nucleus
Cerebellum; DNA repair; Deamination; DNA replication; Brain development (Marietta, C. (53) 317)

Cell survival
Membrane depolarization; BDNF; Cerebellar granule cell; Calcium (Ichikawa, D. (56) 218)

Cellular redox activity
Amyloid β peptide; Alzheimer's disease; Cholinergic; Serotonergic (Olesen, O.F. (57) 266)

Central nervous system
Subcommissural organ; Reissner's fiber; SCO-spondin expression; Neuronal development (Creveaux, I. (55) 45)

Stress-activated protein kinase; JNK; MAPK (Carboni, L. (60) 57)

Cerebellar cortex
Metabotropic glutamate receptor; Immunohistochemistry; Antibody; Western blot (Phillips, T. (57) 132)

Cerebellar granule cell
Membrane depolarization; BDNF; Cell survival; Calcium (Ichikawa, D. (56) 218)

Purkinje cell; In situ hybridization histochemistry; Immunocytochemistry; Myoclonus; Ataxia; Ion channel mutation (Lau, F.C. (59) 93)

Herpes simplex virus; Glutamic acid decarboxylase; GABA; Neurotransmitter release; Virus vector (New, K.C. (61) 121)

Cerebellum
DNA repair; Cell nucleus; Deamination; DNA replication; Brain development (Marietta, C. (53) 317)

Chick embryo; EGL; *Sox* gene; Granule cell (Rex, M. (55) 28)

5-HT_{5A} receptor mRNA expression; In situ hybridization; Human central nervous system; Cortex; Hippocampus (Pasqualetti, M. (56) 1)

PCPTP1-Ce; *PCPTP1*; cDNA; Protein tyrosine phosphatase; Purkinje cell; In situ hybridization; Immunohistochemistry (Watanabe, Y. (58) 83)

PKN; Messenger RNA; In situ hybridization histochemistry; Hippocampus (Hashimoto, T. (59) 143)

mRNA 5-HT_{1A} receptor; Human brain; Development; In situ hybridization; Prenatal; Hippocampus; Raphe nucleus (Del Olmo, E. (60) 123)

11β-Hydroxysteroid dehydrogenase; Glucocorticoid; Development; Thalamus; Mineralocorticoid; Differentiation (Robson, A.C. (61) 1)

Zinc finger motif; *wiz*; Granule cell (Matsumoto, K. (61) 179)

Lurcher mutant mouse; *staggerer* mutant mouse; Neurodegeneration; Inflammation; Proinflammatory cytokine; IL-1β; ELISA (Vernet-der Garabedian, B. (62) 224)

Cerebral cortex
Nerve growth factor; Fibroblast growth factor-2; Dexamethasone; Glucocorticoid; β-Adrenergic receptor; Hippocampus (Colangelo, A.M. (53) 218)

Suprachiasmatic nuclei; Caudate putamen; Circadian rhythm; Protein kinase C; In situ hybridization histochemistry (Cagampang, F.R.A. (53) 277)

Sleep; Sleep deprivation; Wakefulness; Mitochondrion; Fos; Zif/268; Differential PCR display; Rat (Cirelli, C. (56) 293)

Brain-derived neurotrophic factor; Tyrosine kinase receptor; Light–dark cycle; Hippocampus; RT-PCR (Bova, R. (57) 321)

Amiloride; Blood–brain barrier; Cerebral microvessel; Choroid plexus; Na^+/H^+ exchanger; Methyl-isobutyl amiloride (Kalaria, R.N. (58) 178)

Somatostatin; ppSom mRNA; Gene expression; Cyclic-AMP (Capone, G. (60) 247)

Cerebral cortical neuron
Nitric oxide; Voltage-dependent Ca^{2+} channel; Ca^{2+} influx; Cyclic GMP (Ohkuma, S. (54) 133)

Hydroxyl radical; Peroxynitrite; GABA release (Higo, A. (62) 96)

Cerebral infarction
Nuclear factor-κB; *N*-acetylcysteine; Antioxidant; Endothelial cell adhesion molecule (Carroll, J.E. (56) 186)

Cerebral ischemia
Programmed cell death; *Zac1*; Pituitary adenylate cyclase activating polypeptide (Gillardon, F. (61) 207)

Cerebral ischemia / reperfusion damage
Glutathione peroxidase; Reactive oxygen species; Transgenic mouse (Weisbrot-Lefkowitz, M. (53) 333)

Cerebral microvessel
Amiloride; Blood–brain barrier; Cerebral cortex; Choroid plexus; Na^+/H^+ exchanger; Methyl-isobutyl amiloride (Kalaria, R.N. (58) 178)

c-*fos*
Corticotropin-releasing factor; Cycloheximide; Hypothalamus; Paraventricular nucleus; Transcription factors; Vasopressin (Kovács, K.J. (54) 85)

Antisense oligonucleotide; Dentate gyrus; Kainic acid; Opioid gene; Seizure; Transcription factor; Regulation of gene expression (Ziółkowska, B. (54) 243)

c-*jun*; Cell death; Apoptosis; Hypoxia–ischemia; Glucocorticoid; Newborn; Rat (Macaya, A. (56) 29)

mGluR6; CREB; Light; Retina; Phosphorylation (Yoshida, K. (57) 241)

Immediate-early gene; Kindling; Antisense oligodeoxynucleotide; Gene expression; Seizure (Chiasson, B.J. (57) 248)

Phospholipid synthesis; Immediate early gene; Sensorial stimulation; Retina ganglion cell; Photoreceptor cell; Light stimulation (Bussolino, D.F. (58) 10)

Immediate early response gene; Transcription factor; Activator protein-1 complex; Tyrosine hydroxylase; Catecholamine; Adaptation (Mishra, R.R. (59) 74)

Gene expression; Striatal compartment; Brain development; Dopamine D1 receptor; Caudal striatum (Arnauld, E. (60) 127)

Antipsychotic; Schizophrenia; Neurotensin; Dopamine; D2 receptor (Meng, Z.-h. (61) 39)

Morphine; Sensitization; Striatum; In situ hybridization (Erdtmann-Vourliotis, M. (61) 51)

c-*fos* mRNA
Methamphetamine; Oxidative stress; *Zif268* mRNA; Egr-1 (Hirata, H. (58) 209)

cGMP
Phosphodiesterase; Cone; Photoreceptor; Signal transduction; cDNA; Polyclonal antibody; mRNA expression; Ground squirrel (Von Schantz, M. (54) 327)

CGRP
Rat brain; In situ hybridisation; Oligonucleotide; Adrenomedullin (Oliver, K.R. (57) 149)

Chaperon
ORP150; Brain ischemia; Degenerating neuron; Ischemic core; Stress protein (Matsushita, K. (60) 98)

Chemokine
Microglia; NMDA; Excitotoxicity; Hippocampus; Brain injury (Szaflarski, J. (55) 306)

Chick embryo
EGL; *Sox* gene; Cerebellum; Granule cell (Rex, M. (55) 28)

Chicken II-GnRH
LHRH; Seabream-GnRH; Salmon-GnRH; Terminal nerve; Nucleus olfactoretinalis; Preoptic area; Midbrain; In situ hybridization (Soga, T. (60) 13)

Cholecystokinin
Cortical spreading depression; Enkephalin; Dynorphin; Corpus striatum; Corticostriatal neurons; In situ hybridization histochemistry (Arabia, A.-M. (61) 195)

Choline acetyltransferase mRNA
Muscarinic receptor subtype mRNA; Semi-quantitative RT/PCR; Flinders sensitive rats; Cholinergic hypersensitivity (Greco, M.A. (55) 232)

Cholinergic
Amyloid β peptide; Alzheimer's disease; Cellular redox activity; Serotonergic (Olesen, O.F. (57) 266)

Rat; Neurons; Basal forebrain; Nerve growth factor; mRNA (Pongrac, J.L. (62) 25)

Cholinergic hypersensitivity
Choline acetyltransferase mRNA; Muscarinic receptor subtype mRNA; Semi-quantitative RT/PCR; Flinders sensitive rats (Greco, M.A. (55) 232)

Choroid
P2X receptor; Rat; Retina; RT-PCR (Brändle, U. (59) 269)

$P2X_7$-receptor; Purinergic receptors; Rat; Retina; Immunhistochemistry; RT-PCR (Brändle, U. (62) 106)

Choroid plexus
Amiloride; Blood–brain barrier; Cerebral cortex; Cerebral microvessel; Na^+/H^+ exchanger; Methyl-isobutyl amiloride (Kalaria, R.N. (58) 178)

Chromatin
Neurofilament; In vitro transcription; Modular promoter; Tissue-specific gene expression (Schwartz, M.L. (57) 21)

Chromosome mapping
Neural development; Bovine CRMP-2; Protein kinase; *unc*-33 (Kamata, T. (54) 219)

Chronic Δ^9-THC
Tolerance; Cannabinoid receptor (CB1) mRNA; Receptor desensitization; Semi-quantitative RT-PCR; Rat brain (Zhuang, S.-y. (62) 141)

Chronic ethanol treatment
NMDA receptor subunit; Up-regulation (Kalluri, H.S.G. (58) 221)

Circadian clock
Tryptophan hydroxylase; Retina; Pineal gland; Melatonin; Photoreceptor cells (Chong, N.W. (61) 243)

Circadian rhythm
Suprachiasmatic nuclei; Caudate putamen; Cerebral cortex; Protein kinase C; In situ hybridization histochemistry (Cagampang, F.R.A. (53) 277)

Suprachiasmatic nuclei; VIP; VIP2 receptor; In situ hybridization histochemistry (Cagampang, F.R.A. (54) 108)

Phase shifts; Pancreatic polypeptide; Geniculohypothalamic pathway (Larsen, P.J. (60) 69)

cis-parinaric acid
Glutamate; Oxidative stress; Pheochromocytoma; *bcl-2*; Thiol (Tyurin, V.A. (60) 270)

c-*jun*
c-*fos*; Cell death; Apoptosis; Hypoxia–ischemia; Glucocorticoid; Newborn; Rat (Macaya, A. (56) 29)

Cloning
Metabotropic glutamate receptors; L-2-Amino-4-phosphonobutyrate; L-Glutamate; Cyclic AMP; Complementary DNA; Nucleotides (Wu, S. (53) 88)

Leech; Dopamine1-like receptor; 5-HT3-like receptor; Binding; Microsequencing; Localization (Salzet, B. (58) 47)

Peptide; Purification; IQ motif; Calmodulin; MBF1 (Smith, M.L. (62) 12)

Cocaine
Synaptotagmin; Striatum; Immediate-early gene; Amphetamine (Denovan-Wright, E.M. (55) 350)

Dopamine transporter; MPP^+; Mutagenesis (Mitsuhata, C. (56) 84)

GABA receptor; Locomotion; Stereotypy; Antisense oligodeoxynucleotide (Peris, J. (57) 310)

Fluoxetine; MAP kinase phosphatase; Immediate early gene; Psychostimulant; 5,7-Dihydroxytryptamine lesion; In situ hybridization (Thiriet, N. (62) 150)

Cocaine withdrawal
Proenkephalin; D_2 dopamine receptor; Striatum; Rat (Svensson, P. (56) 162)

Cochlea
mRNA; Gene expression; Hair cells; Spiral ganglion; Nicotinic acetylcholine receptor subunits; In situ hybridization; RT–PCR (Morley, B.J. (53) 78)

Acetylcholine receptor inducing activity; Spiral ganglion; Scarpa's ganglion; In situ hybridization; Growth factor (Morley, B.J. (54) 170)

Complementary DNA
Metabotropic glutamate receptors; L-2-Amino-4-phosphonobutyrate; L-Glutamate; Cyclic AMP; Cloning; Nucleotides (Wu, S. (53) 88)

Comprehensive cDNA analysis
Spectrin; Large protein; Gene discovery; Brain (Ohara, O. (57) 181)

Cone
cGMP; Phosphodiesterase; Photoreceptor; Signal transduction; cDNA; Polyclonal antibody; mRNA expression; Ground squirrel (Von Schantz, M. (54) 327)

Conflict
Behavior; GABA; Hybridization (Zhang, L. (58) 16)

Core
Drugs of abuse; Nucleus accumbens; Opioid; Rostral pole; Shell (Mathieu-Kia, A.-M. (54) 141)

Corpus callosum
G protein-coupled receptor; Orphan receptor; Substantia nigra (Donohue, P.J. (54) 152)

Corpus striatum
Cortical spreading depression; Cholecystokinin; Enkephalin; Dynorphin; Corticostriatal neurons; In situ hybridization histochemistry (Arabia, A.-M. (61) 195)

Cortex
Differential display; Glycoprotein; Olfactomedin; Rough endoplasmic reticulum (rER) (Nagano, T. (53) 13)

Gene expression; Hippocampus; hsp40; Ischemia; Quantitative PCR; Rat brain (Paschen, W. (55) 341)

5-HT_{5A} receptor mRNA expression; In situ hybridization; Human central nervous system; Hippocampus; Cerebellum (Pasqualetti, M. (56) 1)

Cortical interneuron
Dopamine receptor; Gene expression; Parvalbumin; Calbindin (Le Moine, C. (58) 231)

Cortical spreading depression
Cholecystokinin; Enkephalin; Dynorphin; Corpus striatum; Corticostriatal neurons; In situ hybridization histochemistry (Arabia, A.-M. (61) 195)

Corticostriatal neurons
Cortical spreading depression; Cholecystokinin; Enkephalin; Dynorphin; Corpus striatum; In situ hybridization histochemistry (Arabia, A.-M. (61) 195)

Corticotropin-releasing factor
c-*fos*; Cycloheximide; Hypothalamus; Paraventricular nucleus; Transcription factors; Vasopressin (Kovács, K.J. (54) 85)

Nitric oxide; Stress; Interleukin-1β; Hypothalamus (Lee, S. (57) 54)

Corticotropin releasing factor type-2 receptor
Antisense oligonucleotides; Phosphorothioates; Ribonuclease H (Peng Ho, S. (62) 1)

COX-2
Proinflammatory mediators; Inflammation; Glial cells; Type II NOS; PGHS-2 (Liu, Y. (59) 189)

CP-55,940
Tetrahydrocannabinol; *R*-methanandamide; Proenkephalin; mRNA; Ventromedial nucleus; Striatum; Periaqueductal grey; Mammillary nucleus (Manzanares, J. (55) 126)

CPP
Immediate early gene; Glutamate; NMDA; Dopamine; ACPD; MCPG; SCH-23390 (Wang, J.Q. (57) 46)

Creatine kinase
Alzheimer's; Microtubule; Activity; Photoaffinity; Partitioning; Nucleotidylation (David, S. (54) 276)

CREB
Cultured rat astrocyte; Phorbol-12-myristate-13-acetate; Proenkephalin; Proto-oncogene (Won, J.-S. (54) 288)

Tyrosine hydroxylase; Catecholamine; CBP; AP-1 (Ghee, M. (55) 101)

mGluR6; Light; Retina; Phosphorylation; c-*fos* (Yoshida, K. (57) 241)

AP-1; Astrocytes; Calcium; ENKCRE-2; Mitogen activated protein kinase; Proenkephalin; Prostaglandin E_2; Protein kinase A; Protein kinase C (Won, J.-S. (60) 203)

PSD; Synaptic plasticity; Gene expression (Suzuki, T. (61) 69)

CREB phosphorylation
Cyclic AMP response element binding protein; c-Jun; Fos; Fra; Dynorphin; Nociception (Messersmith, D.J. (53) 259)

c-*ret*
Glial cell line-derived neurotrophic factor; GDNFR-α; Receptor tyrosine kinase; Motor neuron; Axotomy; In situ hybridization histochemistry (Burazin, T.C.D. (55) 331)

Critical period
Brain; Dark-rearing; Visual; *SKP1*; Cell cycle (Uro-Coste, E. (56) 192)

Cryogenic
Injury; Growth factor (Cook, J.L. (55) 9)

Cultured neurons
Actin assembly; Depolarization; Vesicle recycling; FM1-43; Presynaptic ultrastructure (Bernstein, B.W. (53) 236)

Cultured rat astrocyte
CREB; Phorbol-12-myristate-13-acetate; Proenkephalin; Proto-oncogene (Won, J.-S. (54) 288)

Cyclic AMP
Metabotropic glutamate receptors; L-2-Amino-4-phosphonobutyrate; L-Glutamate; Cloning; Complementary DNA; Nucleotides (Wu, S. (53) 88)

κ-opioid receptor; Astrocytes; Oligodendrocytes; Microglia; Growth factors (Tryoen-Toth, P. (55) 141)

Somatostatin; ppSom mRNA; Gene expression; Cerebral cortex (Capone, G. (60) 247)

Cyclic AMP response element binding protein
CREB phosphorylation; c-Jun; Fos; Fra; Dynorphin; Nociception (Messersmith, D.J. (53) 259)

Cyclic GMP
Nitric oxide; Voltage-dependent Ca^{2+} channel; Ca^{2+} influx; Cerebral cortical neuron (Ohkuma, S. (54) 133)

Cycloheximide
c-*fos*; Corticotropin-releasing factor; Hypothalamus; Paraventricular nucleus; Transcription factors; Vasopressin (Kovács, K.J. (54) 85)

Cyclooxygenase-2
Prostaglandin; Fever; In situ hybridization; Brain; Endothelial cell; Tumor necrosis factor (Cao, C. (56) 45)

Cystatin S
Cysteine proteinase inhibitor; Submandibular gland; Isoproterenol; Parasympathectomy; Denervation (Chaparro, O. (61) 136)

Cysteine proteinase inhibitor
Cystatin S; Submandibular gland; Isoproterenol; Parasympathectomy; Denervation (Chaparro, O. (61) 136)

Cytochrome oxidase
Amyloid beta-protein; Immunohistochemistry; In situ hybridization; Mitochondria; Polyadenylated mRNA (Hatanpää, K. (59) 13)

Cytokine
Interleukin; Neuroimmunology; Hypothalamus; Ventromedial nucleus; Nervous system; Feeding; Food intake; Rat; Intracerebroventricular (Plata-Salamán, C.R. (58) 188)

ED1; Glutamate receptor; In situ hybridization histochemistry; Microglia; Neurodegeneration (Eriksson, C. (58) 195)

Gene expression; Inflammation; Secondary injury; Transcription factor (Xu, J. (59) 135)

Protein-tyrosine-phosphatase; DNA fingerprinting (Schumann, G. (62) 56)

Cytokine receptors
Interleukin-2; Brain; Neurobiology; Molecular cloning; In situ (Petitto, J.M. (53) 152)

Cytoskeleton
Goldfish; Intermediate filament protein; mRNA, regeneration; Visual pathway (Niloff, M.S. (61) 78)

D

Dark-rearing
Brain; Visual; Critical period; *SKP1*; Cell cycle (Uro-Coste, E. (56) 192)

75 kDa TNFR
TNF; Neuron; Cell death (Sipe, K.J. (62) 111)

DBI mRNA
Alcoholism; Diazepam binding inhibitor (DBI); Ethanol inhalation; Ethanol withdrawal; Benzodiazepine (BDZ) receptor (Katsura, M. (54) 124)

D_2 dopamine receptor
Proenkephalin; Cocaine withdrawal; Striatum; Rat (Svensson, P. (56) 162)

Deamination
Cerebellum; DNA repair; Cell nucleus; DNA replication; Brain development (Marietta, C. (53) 317)

Decortication
Striatum; 6-OHDA lesion; Metabotropic receptor (Friberg, I.K. (54) 298)

Degenerating neuron
ORP150; Brain ischemia; Ischemic core; Stress protein; Chaperon (Matsushita, K. (60) 98)

Denervation
Cysteine proteinase inhibitor; Cystatin S; Submandibular gland; Isoproterenol; Parasympathectomy (Chaparro, O. (61) 136)

Dental pulp
Trigeminal neuron; Neurotrophin; trk Receptor; Injury; Nociception; Retrograde transport (Wheeler, E.F. (61) 23)

Dentate gyrus
Antisense oligonucleotide; c-*fos*; Kainic acid; Opioid gene; Seizure; Transcription factor; Regulation of gene expression (Ziółkowska, B. (54) 243)

Dephosphorylation
Phosphorylation; Development; Cell adhesion; Mouse (McAndrew, P.E. (56) 9)

Depolarization
Actin assembly; Vesicle recycling; Cultured neurons; FM1-43; Presynaptic ultrastructure (Bernstein, B.W. (53) 236)

Depression
In situ hybridization; Serotonin receptor; Steroid hormone; Estrogen; Brain (Österlund, M.K. (55) 169)

Neuropeptide Y receptor; In situ hybridization; Genetic rat model; Flinders sensitive line rats; Fluoxetine (Caberlotto, L. (59) 58)

Desensitization
HEK293 cell; NMDA receptor; Inactivation; Patch clamp; Recombinant receptor; Hippocampal cell (Kendrick, S.J. (57) 10)

Developing brain neuron
Hypoxia; Pre-conditioning; Apoptosis; Mitosis; Bcl-2; PCNA (Bossenmeyer-Pourié, C. (58) 237)

Developing nervous system
DP5; BH3 domain; In situ hybridization; Apoptosis; Gene expression (Kanazawa, K.-y. (54) 316)

Development
Growth-associated protein; GAP-43; SNAP-25; Regeneration (Wouters, B.C. (53) 53)

Myelin-associated glycoprotein; Myelination; Peripheral nervous system; Schwann cell; Differential expression; Polymorphism; Phosphorylation (Kursula, P. (54) 252)

POU factor; Trigeminal; mRNA expression; Neurotrophin (Wyatt, S. (55) 254)

Phosphorylation; Dephosphorylation; Cell adhesion; Mouse (McAndrew, P.E. (56) 9)

Dual-specificity phosphatases; NGF; TrkA; Peripheral ganglia (Peinado-Ramón, P. (56) 256)

Fetus; Newborn; Adult; Brain; EP (Tai, T.-C. (57) 161)

Acetylcholine receptor; Neuromuscular junction; Synaptogenesis (Yang, J.F. (58) 59)

mRNA 5-HT_{1A} receptor; Human brain; In situ hybridization; Prenatal; Cerebellum; Hippocampus; Raphe nucleus (Del Olmo, E. (60) 123)

Heart; Enkephalin; Proopiomelanocortin; Prodynorphin (McLaughlin, P.J. (60) 160)

Suprachiasmatic nuclei; Postnatal; Melatonin receptor; In situ hybridization; Syrian hamster (Gauer, F. (60) 193)

γ-Aminobutyric acid; Receptor regulation; Mutant mice; Immunoblotting (Thompson, C.L. (60) 282)

11β-Hydroxysteroid dehydrogenase; Glucocorticoid; Cerebellum; Thalamus; Mineralocorticoid; Differentiation (Robson, A.C. (61) 1)

GluR2; Antisense; Knockdown; Hippocampus; Neurodegeneration (Friedman, L.K. (61) 224)

Developmental expression
FMRFamide gene family; Neuropeptide (Nelson, L.S. (58) 103)

Developmental toxicity
Opiate neuropeptides; Dopaminoceptive neurons; Limbic system; Functional marker; Drugs of abuse; Long-term cocaine effects (Dow-Edwards, D.L. (62) 82)

Dexamethasone
Nerve growth factor; Fibroblast growth factor-2; Glucocorticoid; β-Adrenergic receptor; Hippocampus; Cerebral cortex (Colangelo, A.M. (53) 218)

Diamide
Oxidative stress; Phosphoinositide hydrolysis; AP-1; NFκB; Glutathione (Li, X. (53) 196)

Diazepam binding inhibitor (DBI)
Alcoholism; DBI mRNA; Ethanol inhalation; Ethanol withdrawal; Benzodiazepine (BDZ) receptor (Katsura, M. (54) 124)

Mouse cerebral cortex; Nicotine dependence; Nicotinic acetylcholine receptor (nAChR) (Katsura, M. (55) 345)

Diet
$GABA_A$ receptor; mRNA level; Radioligand binding; α_2 Sub-unit (Mhatre, M.C. (54) 270)

Differential display
Cortex; Glycoprotein; Olfactomedin; Rough endoplasmic reticulum (rER) (Nagano, T. (53) 13)

MnSOD; Superoxide; Mitochondria; mRNA; Stathmin; Induction (Li, Y. (55) 277)

Raf-1; Erk; Ras; Bad; Nerve regeneration; Rat (Namikawa, K. (55) 315)

Brain ischemia; *ARF4L*; Vesicle transport; Hypoxia (Katayama, T. (56) 66)

Microglial activation; Lipopolysaccharides; Squamous cell carcinoma antigen and serine proteinase inhibitor (Thakker-Varia, S. (56) 99)

Microglia; Astrocyte; Interferon-inducible protein 10; LPS; Fever; Inflammation; Rat brain (Ren, L.-q. (59) 256)

Vestibular compensation; Purkinje cell; Flocculus; Mutant mice (Kitahara, T. (61) 170)

Differential expression
Myelin-associated glycoprotein; Myelination; Peripheral nervous system; Schwann cell; Development; Polymorphism; Phosphorylation (Kursula, P. (54) 252)

Differential PCR display
Sleep; Sleep deprivation; Wakefulness; Cerebral cortex; Mitochondrion; Fos; Zif/268; Rat (Cirelli, C. (56) 293)

Differentiation
Calreticulin; Apoptosis; Calcium; Antisense; NG-108-15 cell (Johnson, R.J. (53) 104)

Capsaicin; Vanilloid receptor; Resiniferatoxin; Glial cell; Apoptosis (Bíró, T. (56) 89)

FGF-2 isoform; Transfection; In vitro; Rat cell line; Schwann cell; PC12 cell (Grothe, C. (57) 97)

11β-Hydroxysteroid dehydrogenase; Glucocorticoid; Development; Cerebellum; Thalamus; Mineralocorticoid (Robson, A.C. (61) 1)

Digoxigenin
Neuronal nitric oxide synthase; mRNA; Hybridization; In situ; Rat brain; Hippocampus (Iwase, K. (53) 1)

5,7-Dihydroxytryptamine lesion
Cocaine; Fluoxetine; MAP kinase phosphatase; Immediate early gene; Psychostimulant; In situ hybridization (Thiriet, N. (62) 150)

DNA fingerprinting
Cytokine; Protein-tyrosine-phosphatase (Schumann, G. (62) 56)

DNA fragmentation
Cell death; c-Jun; c-Fos; NF-κB; Cell free system (Solovyan, V. (62) 43)

DNA repair
Cerebellum; Cell nucleus; Deamination; DNA replication; Brain development (Marietta, C. (53) 317)

Global cerebral ischemia; Hypothermia; Proliferating cell nuclear antigen (PCNA); Ref-1 (Tomasevic, G. (60) 168)

DNA replication
Cerebellum; DNA repair; Cell nucleus; Deamination; Brain development (Marietta, C. (53) 317)

DOPA decarboxylase
Gene regulation; Dopamine; Drifter; NF-Y; Sp1 (Raynal, J.-F. (56) 227)

Dopamine
Immediate early gene; AP-1; Striatum; FosB; Mouse (Pérez-Otaño, I. (53) 41)

Gene regulation; DOPA decarboxylase; Drifter; NF-Y; Sp1 (Raynal, J.-F. (56) 227)

Vesicular monoamine transporter; Estradiol; Progesterone; [^{3}H]dihydrotetrabenazine; Serotonin (Rehavi, M. (57) 31)

Immediate early gene; Glutamate; NMDA; ACPD; MCPG; SCH-23390; CPP (Wang, J.Q. (57) 46)

Striatum; 6-OHDA; Proto-oncogene; Neonate; D1-receptor; mRNA (Soghomonian, J.-J. (57) 155)

Caudate-putamen; Peptide expression; Antipsychotics; Neuroleptics (Zahm, D.S. (59) 196)

Antipsychotic; Schizophrenia; c-*fos*; Neurotensin; D2 receptor (Meng, Z.-h. (61) 39)

Behavioral sensitization; Striatum; Nucleus accumbens; Mesencephalon; RNase protection assay (Michelhaugh, S.K. (62) 35)

Dopamine D1 receptor
c-*fos*; Gene expression; Striatal compartment; Brain development; Caudal striatum (Arnauld, E. (60) 127)

Dopamine1-like receptor
Leech; 5-HT3-like receptor; Binding; Microsequencing; Cloning; Localization (Salzet, B. (58) 47)

Dopamine receptor
Antisense oligonucleotide; Immediate-early gene; 6-Hydroxydopamine; Striatum (Crocker, S.J. (53) 69)

Aripiprazole; Haloperidol; [^{3}H]Spiperone-binding; RNase protection assay; Rat pituitary (Inoue, A. (55) 285)

Gene expression; Cortical interneuron; Parvalbumin; Calbindin (Le Moine, C. (58) 231)

NMDA; Striatum; *zif 268*; *jun B*; Immediate early gene (Leslie, C.A. (59) 40)

6-hydroxydopamine; Basal ganglia; Sensitization; Turning behavior; In situ hybridization (Van de Witte, S.V. (61) 219)

Dopaminergic control
Neurotensin receptor; mRNA; In situ hybridization; Ependymal cell; Glia; Neuron; Neuroendocrine (Walker, N. (57) 193)

Dopamine transporter
MPP^+; Cocaine; Mutagenesis (Mitsuhata, C. (56) 84)

Dopamine transporter regulation uptake [^{3}H]WIN35428
(Zhang, L. (59) 66)

Dopaminoceptive neurons
Developmental toxicity; Opiate neuropeptides; Limbic system; Functional marker; Drugs of abuse; Long-term cocaine effects (Dow-Edwards, D.L. (62) 82)

Dorsal raphe
Estrogen; Progesterone; Serotonin; SERT; Primate (Pecins-Thompson, M. (53) 120)

Dorsal root ganglia
Axotomy; c-Jun; Injury; Ischemia; Rat (Martin-Villalba, A. (62) 158)

Dot blot hybridization
Alcohol; Ethanol; Extrapyramidal system; HMW MAP2; Northern; In situ hybridization; Neurotoxicity; Withdrawal (Putzke, J. (62) 196)

Double labeling
SP receptor mRNA; Tissue RT–PCR; Single cell RT–PCR; SP receptor protein; Polyclonal antibody; SNc DA neurons (Futami, T. (54) 183)

Down-regulation
Carboxyl terminus; Etorphine; μ- and δ-opioid receptor; Immunofluorescence (Afify, E.A. (54) 24)

Down syndrome
Calcium current; L-type channel; Trisomy 16; Na^+/myo-inositol transporter; Hippocampal neuron; Mouse (Galdzicki, Z. (56) 200)

DP5
BH3 domain; In situ hybridization; Developing nervous system; Apoptosis; Gene expression (Kanazawa, K.-y. (54) 316)

D1-receptor
Striatum; 6-OHDA; Dopamine; Proto-oncogene; Neonate; mRNA (Soghomonian, J.-J. (57) 155)

D2 receptor
Antipsychotic; Schizophrenia; c-*fos*; Neurotensin; Dopamine (Meng, Z.-h. (61) 39)

Drifter
Gene regulation; Dopamine; DOPA decarboxylase; NF-Y; Sp1 (Raynal, J.-F. (56) 227)

Drosophila
Slit; Leucine-rich repeat; EGF-like (Itoh, A. (62) 175)

Drug abuse
PCR differential display; Subtraction; Gene regulation; Amphetamine (Wang, X.B. (53) 344)

Drugs of abuse
Nucleus accumbens; Opioid; Rostral pole; Shell; Core (Mathieu-Kia, A.-M. (54) 141)

Developmental toxicity; Opiate neuropeptides; Dopaminoceptive neurons; Limbic system; Functional marker; Long-term cocaine effects (Dow-Edwards, D.L. (62) 82)

Dual-specificity phosphatases
NGF; TrkA; Development; Peripheral ganglia (Peinado-Ramón, P. (56) 256)

Dynorphin
Cyclic AMP response element binding protein; CREB phosphorylation; c-Jun; Fos; Fra; Nociception (Messersmith, D.J. (53) 259)

In situ hybridization; Enkephalin; Substance P; GABA; Basal ganglia; 5-Hydroxytryptamine (Mijnster, M.J. (54) 64)

Substance P; Enkephalin; ACPD; MCPG; Caudoputamen; Accumbens; Behavior (Wang, J.Q. (54) 262)

Cortical spreading depression; Cholecystokinin; Enkephalin; Corpus striatum; Corticostriatal neurons; In situ hybridization histochemistry (Arabia, A.-M. (61) 195)

E

ED1
Cytokine; Glutamate receptor; In situ hybridization histochemistry; Microglia; Neurodegeneration (Eriksson, C. (58) 195)

Efferent
Synaptogenesis; Olivocochlear; Hybridization, in situ; Organ of Corti (Simmons, D.D. (56) 287)

EGF-like
Slit; Leucine-rich repeat; *Drosophila* (Itoh, A. (62) 175)

EGL
Chick embryo; *Sox* gene; Cerebellum; Granule cell (Rex, M. (55) 28)

Egr-1
c-*fos* mRNA; Methamphetamine; Oxidative stress; *Zif268* mRNA (Hirata, H. (58) 209)

Electric fish
K^+ channel; Voltage-gated; PCR; Evolution (Rashid, A.J. (54) 101)

Electroconvulsive shock
BDNF; Rat brain; Antidepressant; mRNA; In situ hybridisation (Zetterström, T.S.C. (57) 106)

Gene expression; mRNA; Glutamate; Seizure (Watkins, C.J. (61) 108)

Electrophysiology
Osmotic minipump; Immunocytochemistry; Inner ear; Guinea pig (D'Aldin, C. (55) 151)

AMPA-glutamate receptor; Teleost fish; cDNA cloning (Chang, H.-M. (57) 211)

ELISA
Lurcher mutant mouse; *staggerer* mutant mouse; Neurodegeneration; Cerebellum; Inflammation; Proinflammatory cytokine; IL-1β (Vernet-der Garabedian, B. (62) 224)

El mouse
Epilepsy; Quinolinic acid; 3-hydroxyanthranilate 3,4-dioxygenase; Excitotoxin (Nakagawa, Y. (58) 132)

Endoplasmic reticulum
Calcium homeostasis; Gadd153 expression; Neuronal cell culture; Rat; Thapsigargin; Transient cerebral ischemia (Paschen, W. (60) 115)

Endothelial cell
Cyclooxygenase-2; Prostaglandin; Fever; In situ hybridization; Brain; Tumor necrosis factor (Cao, C. (56) 45)

Barbiturate; VEGF; Hypoxia (Fischer, S. (60) 89)

Endothelial cell adhesion molecule
Nuclear factor-κB; Cerebral infarction; *N*-acetylcysteine; Antioxidant (Carroll, J.E. (56) 186)

Endotoxin
IL-6; TNF; Metallothionein-I, -II and -III; Stress; Turpentine (Carrasco, J. (57) 221)

ENKCRE-2
AP-1; Astrocytes; Calcium; CREB; Mitogen activated protein kinase; Proenkephalin; Prostaglandin E_2; Protein kinase A; Protein kinase C (Won, J.-S. (60) 203)

Enkephalin
In situ hybridization; Dynorphin; Substance P; GABA; Basal ganglia; 5-Hydroxytryptamine (Mijnster, M.J. (54) 64)

Dynorphin; Substance P; ACPD; MCPG; Caudoputamen; Accumbens; Behavior (Wang, J.Q. (54) 262)

In situ hybridization; mRNA expression; Substance P; Thalamus (Salin, P. (57) 257)

Estrogen; Preoptic AREA; Hypothalamus; Sex difference; Opioid (Segarra, A.C. (60) 133)

Heart; Development; Proopiomelanocortin; Prodynorphin (McLaughlin, P.J. (60) 160)

Cortical spreading depression; Cholecystokinin; Dynorphin; Corpus striatum; Corticostriatal neurons; In situ hybridization histochemistry (Arabia, A.-M. (61) 195)

Environmental enrichment
5-HT1A receptor; Hippocampus; In situ hybridization; Neuronal plasticity (Rasmuson, S. (53) 285)

EP
Fetus; Newborn; Adult; Development; Brain (Tai, T.-C. (57) 161)

Ependymal cell
Neurotensin receptor; mRNA; In situ hybridization; Glia; Neuron; Neuroendocrine; Dopaminergic control (Walker, N. (57) 193)

Epilepsy
Rat; trk B; trk C; Fos; Neurotrophin (Hughes, P.E. (53) 138)

Apoptosis; Programmed cell death; Bax; Bcl-2; Kindling; Hippocampus (Zhang, L.-X. (55) 198)

El mouse; Quinolinic acid; 3-hydroxyanthranilate 3,4-dioxygenase; Excitotoxin (Nakagawa, Y. (58) 132)

Kindling; NMDA receptor; Subunit composition; Immunoblot; Plasticity (Kraus, J.E. (61) 114)

ERK
PDGF; PDGF receptor; MAP kinase; JNK; Mouse (Hu, Y. (53) 251)

Erk
Raf-1; Ras; Bad; Nerve regeneration; Differential display; Rat (Namikawa, K. (55) 315)

Estradiol
Vesicular monoamine transporter; Progesterone; [^{3}H]dihydrotetrabenazine; Serotonin; Dopamine (Rehavi, M. (57) 31)

Estrogen
Progesterone; Dorsal raphe; Serotonin; SERT; Primate (Pecins-Thompson, M. (53) 120)

Gonadotropin-releasing hormone; Gonadotropin-releasing hormone receptor; Progesterone; Gene expression; Antisense oligonucleotide; Preoptic area; Mediobasal hypothalamus; Rat (Seong, J.Y. (53) 226)

Fos; Jun; Hypothalamus; Pituitary; Protein–DNA interaction (Zhu, Y.-S. (55) 115)

In situ hybridization; Depression; Serotonin receptor; Steroid hormone; Brain (Österlund, M.K. (55) 169)

Neuronal nitric oxide synthase; mRNA; Ventromedial hypothalamus; In situ hybridization (Rachman, I.M. (59) 105)

Enkephalin; Preoptic AREA; Hypothalamus; Sex difference; Opioid (Segarra, A.C. (60) 133)

Ethanol
Alcohol; Extrapyramidal system; HMW MAP2; Northern; Dot blot hybridization; In situ hybridization; Neurotoxicity; Withdrawal (Putzke, J. (62) 196)

Ethanol inhalation
Alcoholism; Diazepam binding inhibitor (DBI); DBI mRNA; Ethanol withdrawal; Benzodiazepine (BDZ) receptor (Katsura, M. (54) 124)

Ethanol withdrawal
Alcoholism; Diazepam binding inhibitor (DBI); DBI mRNA; Ethanol inhalation; Benzodiazepine (BDZ) receptor (Katsura, M. (54) 124)

Etomidate
Anesthetic mechanisms; Intravenous anesthetic; Propofol; Ketamine; Patch-clamp-technique; Whole cell; Potassium; Extracellular concentration; Potassium current; Human neuronal (Friederich, P. (60) 301)

Etorphine
Carboxyl terminus; μ- and δ-opioid receptor; Down-regulation; Immunofluorescence (Afify, E.A. (54) 24)

Evolution
K^+ channel; Voltage-gated; PCR; Electric fish (Rashid, A.J. (54) 101)

Excitatory amino acid
Glutamate; Metabotropic glutamate receptor; Glutamate transporter; In situ hybridization; Schizophrenia (Ohnuma, T. (56) 207)

Excitotoxicity
Hippocampal neuron; Calpain; Spectrin; Imaging; Calcium; Primary culture (Adamec, E. (54) 35)

Microglia; NMDA; Chemokine; Hippocampus; Brain injury (Szaflarski, J. (55) 306)

Rat; Substance P; Seizure; Kainic acid (Zachrisson, O. (60) 291)

Quinolinic acid; Gene expression; Hippocampal cell culture; Proteasome; Protease nexin-1 (Seidel, B. (60) 296)

Excitotoxin
Epilepsy; El mouse; Quinolinic acid; 3-hydroxyanthranilate 3,4-dioxygenase (Nakagawa, Y. (58) 132)

Exercise
Brain-derived neurotrophic factor; Exon; Rat; Hippocampus (Oliff, H.S. (61) 147)

Exocytotic release
Hippocampal synaptosomes; Nitric oxide; γ-Aminobutyric acid; NNC-711; Carrier-mediated release (Sequeira, S.M. (55) 337)

Exon
Brain-derived neurotrophic factor; Seizure; Glucocorticoid; In situ hybridization (Lauterborn, J.C. (55) 81)

Brain-derived neurotrophic factor; Exercise; Rat; Hippocampus (Oliff, H.S. (61) 147)

Extracellular concentration
Anesthetic mechanisms; Intravenous anesthetic; Etomidate; Propofol; Ketamine; Patch-clamp-technique; Whole cell; Potassium; Potassium current; Human neuronal (Friederich, P. (60) 301)

Extrapyramidal system
Alcohol; Ethanol; HMW MAP2; Northern; Dot blot hybridization; In situ hybridization; Neurotoxicity; Withdrawal (Putzke, J. (62) 196)

Eye
Glaucoma; THC; Gene expression; RT-PCR; CB (Porcella, A. (58) 240)

F

Facial nerve axotomy
Iba1; Microglia; Calcium binding protein; Immunocytochemistry; Immunohistochemistry (Ito, D. (57) 1)

F-actin
Neurite retraction; Lysophosphatidic acid; NG108-15 cell; PC12 cell; Neuroprotection (Magazin, M. (53) 301)

Feeding
Interleukin; Cytokine; Neuroimmunology; Hypothalamus; Ventromedial nucleus; Nervous system; Food intake; Rat; Intracerebroventricular (Plata-Salamán, C.R. (58) 188)

Female guinea pig
Arcuate nucleus; β-endorphin; In situ hybridization histochemistry; Median eminence; Morphine pellet (Fang, Y. (55) 1)

Fetus
Newborn; Adult; Development; Brain; EP (Tai, T.-C. (57) 161)

Fever
Cyclooxygenase-2; Prostaglandin; In situ hybridization; Brain; Endothelial cell; Tumor necrosis factor (Cao, C. (56) 45)

Microglia; Astrocyte; Interferon-inducible protein 10; Differential display; LPS; Inflammation; Rat brain (Ren, L.-q. (59) 256)

FGF-2 isoform
Transfection; Differentiation; In vitro; Rat cell line; Schwann cell; PC12 cell (Grothe, C. (57) 97)

Fibroblast growth factor-2
Nerve growth factor; Dexamethasone; Glucocorticoid; β-Adrenergic receptor; Hippocampus; Cerebral cortex (Colangelo, A.M. (53) 218)

Fibroblast growth factor
Gene expression; Glucocorticoid; Noradrenergic system; Neuroprotection; Glia (Riva, M.A. (57) 38)

Flinders sensitive line rats
Neuropeptide Y receptor; In situ hybridization; Genetic rat model; Depression; Fluoxetine (Caberlotto, L. (59) 58)

Flinders sensitive rats
Choline acetyltransferase mRNA; Muscarinic receptor subtype mRNA; Semi-quantitative RT/PCR; Cholinergic hypersensitivity (Greco, M.A. (55) 232)

Flocculus
Vestibular compensation; Purkinje cell; Differential display; Mutant mice (Kitahara, T. (61) 170)

Fluoxetine
Neuropeptide Y receptor; In situ hybridization; Genetic rat model; Depression; Flinders sensitive line rats (Caberlotto, L. (59) 58)

Cocaine; MAP kinase phosphatase; Immediate early gene; Psychostimulant; 5,7-Dihydroxytryptamine lesion; In situ hybridization (Thiriet, N. (62) 150)

Flupenthixol
Schizophrenia; *N*-methyl-D-aspartate (NMDA); Gene expression; mRNA; Multiprobe oligonucleotide solution hybridization (MOSH); Antipsychotic drugs (Chen, A.C.-H. (54) 92)

FM1-43
Actin assembly; Depolarization; Vesicle recycling; Cultured neurons; Presynaptic ultrastructure (Bernstein, B.W. (53) 236)

FMRFamide gene family
Neuropeptide; Developmental expression (Nelson, L.S. (58) 103)

Food intake
Interleukin; Cytokine; Neuroimmunology; Hypothalamus; Ventromedial nucleus; Nervous system; Feeding; Rat; Intracerebroventricular (Plata-Salamán, C.R. (58) 188)

Y_5 receptor mRNA; In situ hybridization; Human brain; Neuropeptide Y (Jacques, D. (61) 100)

Forskolin
Oxytocin receptor; Promoter; Transfection; SK-N-SH; MCF7; Phorbol 12-myristate 13-acetate (Bale, T.L. (53) 130)

Fos
Rat; trk B; trk C; Neurotrophin; Epilepsy (Hughes, P.E. (53) 138)

Cyclic AMP response element binding protein; CREB phosphorylation; c-Jun; Fra; Dynorphin; Nociception (Messersmith, D.J. (53) 259)

Estrogen; Jun; Hypothalamus; Pituitary; Protein–DNA interaction (Zhu, Y.-S. (55) 115)

Sleep; Sleep deprivation; Wakefulness; Cerebral cortex; Mitochondrion; Zif/268; Differential PCR display; Rat (Cirelli, C. (56) 293)

NMDA; GnRH; GT1-1 cell; Nitric oxide; Jun (Jung, N. (61) 162)

c-Fos
Sodium valproate; Lithium chloride; c-Jun; Fos-related antigen; Activity protein-1 binding; Bipolar disorder (Asghari, V. (58) 95)

Cell death; c-Jun; NF-κB; DNA fragmentation; Cell free system (Solovyan, V. (62) 43)

FosB
Dopamine; Immediate early gene; AP-1; Striatum; Mouse (Pérez-Otaño, I. (53) 41)

Fos-related antigen
Sodium valproate; Lithium chloride; c-Fos; c-Jun; Activity protein-1 binding; Bipolar disorder (Asghari, V. (58) 95)

3F8 / phosphacan
Protein tyrosine phosphatase; Alternative splicing; RPTPβ/HPTPζ; Proteoglycan; Sciatic nerve (Li, J. (60) 77)

Fra
Cyclic AMP response element binding protein; CREB phosphorylation; c-Jun; Fos; Dynorphin; Nociception (Messersmith, D.J. (53) 259)

Fragile X syndrome
Nicotinic acetylcholine receptor; α4 Subunit; Human fetal brain; In situ hybridization; Anatomical localization (Agulhon, C. (58) 123)

Frontal, cingulate and piriform cortex
Serotonin; 5-HT_{2A} receptor; Nucleus accumbens; Caudate-putamen; Aromatase (Sumner, B.E.H. (59) 205)

Frontal cortex
Human D_4 dopamine receptor; Schizophrenia; Ribonuclease protection assay; Caudate (Stefanis, N.C. (53) 112)

Full-length TrkB
Kainic acid; BDNF; Truncated TrkB; Hippocampus (Goutan, E. (59) 154)

Functional marker
Developmental toxicity; Opiate neuropeptides; Dopaminoceptive neurons; Limbic system; Drugs of abuse; Long-term cocaine effects (Dow-Edwards, D.L. (62) 82)

G

GABA
In situ hybridization; Enkephalin; Dynorphin; Substance P; Basal ganglia; 5-Hydroxytryptamine (Mijnster, M.J. (54) 64)

Conflict; Behavior; Hybridization (Zhang, L. (58) 16)

Cerebellar granule cells; Herpes simplex virus; Glutamic acid decarboxylase; Neurotransmitter release; Virus vector (New, K.C. (61) 121)

GABA / benzodiazepine receptor
γ-Aminobutyric acid; Audiogenic seizure; Alcohol; Alternative splicing (Liu, Z.F. (59) 84)

GABAergic transmission
Huntington's disease; Basal ganglia (Caruncho, H.J. (57) 301)

$GABA_A$ receptor
mRNA level; Radioligand binding; α_2 Sub-unit; Diet (Mhatre, M.C. (54) 270)

Alzheimer's disease; In situ hybridization; Hippocampus (Mizukami, K. (56) 268)

Gamma 2 subunit; Alternative splicing; Mutation scan; Allelic association; Alcoholism; Taiwanese aborigines (Hsu, Y.-P.P. (56) 284)

GABA receptor
Cocaine; Locomotion; Stereotypy; Antisense oligodeoxynucleotide (Peris, J. (57) 310)

$GABA_A$ receptor
GFP; *Xenopus* oocytes (Bueno, O.F. (59) 165)

GABA release
Hydroxyl radical; Peroxynitrite; Cerebral cortical neurons (Higo, A. (62) 96)

GABA transporter
mRNA; In situ hybridization; Kindling; Hippocampus; Amygdala; Rat (Hirao, T. (54) 49)

Gadd153 expression
Calcium homeostasis; Endoplasmic reticulum; Neuronal cell culture; Rat; Thapsigargin; Transient cerebral ischemia (Paschen, W. (60) 115)

Gαi2-protein
Gαo-protein; In situ hybridization; Mouse; Vomeronasal receptor (Saito, H. (60) 215)

β-Galactosidase
Brain; Substantia nigra; Transgenic mouse; Tyrosinase; Neuromelanin (Tief, K. (53) 307)

Galanin
G protein-coupled receptor; Gene structure; Signal transduction; Tissue distribution (Fathi, Z. (58) 156)

Bovine; Gene expression; Luciferase; mRNA; Promoter; Transgenic mouse (Rökaeus, Å. (60) 150)

Gamma 2 subunit
$GABA_A$ receptor; Alternative splicing; Mutation scan; Allelic association; Alcoholism; Taiwanese aborigines (Hsu, Y.-P.P. (56) 284)

Gαo-protein
Gαi2-protein; In situ hybridization; Mouse; Vomeronasal receptor (Saito, H. (60) 215)

GAP-43
β-Amyloid precursor protein; Inositol 1,4,5-trisphosphate; MARCKS; Phospholipase Cγ1; Protein kinase C; Signal transduction (Ishiguro, M. (53) 24)

Growth-associated protein; SNAP-25; Development; Regeneration (Wouters, B.C. (53) 53)

Gastrointestinal motility
Knockout; μ-Opioid receptor; Morphine (Roy, S. (56) 281)

GDNFR-α
Glial cell line-derived neurotrophic factor; c-*ret*; Receptor tyrosine kinase; Motor neuron; Axotomy; In situ hybridization histochemistry (Burazin, T.C.D. (55) 331)

Gel shift assay
Alzheimer's disease; Beta-amyloid precursor protein; Gene regulation; βAPP promoter; NF-κB; Transcription factor (Lahiri, D.K. (58) 112)

Gene discovery
Spectrin; Comprehensive cDNA analysis; Large protein; Brain (Ohara, O. (57) 181)

Gene expression
mRNA; Cochlea; Hair cells; Spiral ganglion; Nicotinic acetylcholine receptor subunits; In situ hybridization; RT–PCR (Morley, B.J. (53) 78)

Gonadotropin-releasing hormone; Gonadotropin-releasing hormone receptor; Estrogen; Progesterone; Antisense oligonucleotide; Preoptic area; Mediobasal hypothalamus; Rat (Seong, J.Y. (53) 226)

Schizophrenia; *N*-methyl-D-aspartate (NMDA); mRNA; Flupenthixol; Multiprobe oligonucleotide solution hybridization (MOSH); Antipsychotic drugs (Chen, A.C.-H. (54) 92)

DP5; BH3 domain; In situ hybridization; Developing nervous system; Apoptosis (Kanazawa, K.-y. (54) 316)

Brain; Glia; Neurons; Rat; Stroke (Lin, T.-N. (55) 71)

Voltage-dependent calcium channel; Retina; In situ hybridization; mRNA (Kamphuis, W. (55) 209)

Cortex; Hippocampus; hsp40; Ischemia; Quantitative PCR; Rat brain (Paschen, W. (55) 341)

Calcium-calmodulin-dependent protein kinase II; Microtubule-associated protein 2; Long-term potentiation; Rat (Roberts, L.A. (56) 38)

Sodium channels; mRNA; Neuron; cAMP; Calcium; Proenkephalin; Scorpion toxins (Giraud, P. (56) 238)

Fibroblast growth factor; Glucocorticoid; Noradrenergic system; Neuroprotection; Glia (Riva, M.A. (57) 38)

Immediate-early gene; c-*fos*; Kindling; Antisense oligodeoxynucleotide; Seizure (Chiasson, B.J. (57) 248)

Müller glia; Bergmann glia; Glutamate receptor (López, T. (58) 40)

Blood–brain barrier; Brain; Ischemia; Testis (Tsukamoto, H. (58) 170)

Lithium; AP-1; GSK-3; Manic depressive; PKC (Yuan, P.-X. (58) 225)

Dopamine receptor; Cortical interneuron; Parvalbumin; Calbindin (Le Moine, C. (58) 231)

Glaucoma; THC; RT-PCR; CB; Eye (Porcella, A. (58) 240)

Blood–brain barrier; Brain tumor; Post-transcription; mRNA (Boado, R.J. (59) 109)

Neurotrophin-3; Transgenic mouse; Reporter gene; Promoter (Kaisho, Y. (59) 114)

Cytokine; Inflammation; Secondary injury; Transcription factor (Xu, J. (59) 135)

In situ hybridization; NPY; POMC; Obesity; Neuropeptide (Guan, X.-M. (59) 273)

c-*fos*; Striatal compartment; Brain development; Dopamine D1 receptor; Caudal striatum (Arnauld, E. (60) 127)

Bovine; Galanin; Luciferase; mRNA; Promoter; Transgenic mouse (Rökaeus, Å. (60) 150)

Somatostatin; ppSom mRNA; Cerebral cortex; Cyclic-AMP (Capone, G. (60) 247)

Excitotoxicity; Quinolinic acid; Hippocampal cell culture; Proteasome; Protease nexin-1 (Seidel, B. (60) 296)

CREB; PSD; Synaptic plasticity (Suzuki, T. (61) 69)

Electroconvulsive shock; mRNA; Glutamate; Seizure (Watkins, C.J. (61) 108)

Gene regulation
PCR differential display; Subtraction; Amphetamine; Drug abuse (Wang, X.B. (53) 344)

Prostaglandin D2 synthase/β-trace; Thyroid hormone; Promoter (García-Fernández, L.F. (55) 321)

Dopamine; DOPA decarboxylase; Drifter; NF-Y; Sp1 (Raynal, J.-F. (56) 227)

Alzheimer's disease; Beta-amyloid precursor protein; βAPP promoter; Gel shift assay; NF-κB; Transcription factor (Lahiri, D.K. (58) 112)

Gene structure
Galanin; G protein-coupled receptor; Signal transduction; Tissue distribution (Fathi, Z. (58) 156)

Genetic rat model
Neuropeptide Y receptor; In situ hybridization; Depression; Flinders sensitive line rats; Fluoxetine (Caberlotto, L. (59) 58)

Genetic variation
Serotonin receptor; Alcoholism; Single-stranded conformational polymorphism (SSCP); Polymorphism; Point mutation; Amino acid substitution (Iwata, N. (58) 217)

Gene transcription
Paired box gene; PAX-6; Alternative promoter; Brain; Human (Okladnova, O. (60) 177)

Geniculo-hypothalamic pathway
Circadian rhythms; Phase shifts; Pancreatic polypeptide (Larsen, P.J. (60) 69)

Genomic imprinting
HTR2A gene; Monoallelic expression; Neurobehavioral disorder; Pharmacogenetic (Bunzel, R. (59) 90)

Gerbil
Renin–angiotensin system; Angiotensin receptor; AT_1 receptor antagonist; Receptor sequence; In situ hybridization (Moriuchi, R. (60) 234)

GFAP
Astrocytic differentiation; Protein kinase C (PKC); Glutamine synthetase; Proliferation (Brodie, C. (56) 108)

Astrocyte; Transgenic mouse; Vimentin; Taurine; RVD (regulatory volume decrease) (Ding, M. (62) 77)

GFP
$GABA_A$ receptor; *Xenopus* oocytes (Bueno, O.F. (59) 165)

Glaucoma
THC; Gene expression; RT-PCR; CB; Eye (Porcella, A. (58) 240)

Glia
Brain; Gene expression; Neurons; Rat; Stroke (Lin, T.-N. (55) 71)

Fibroblast growth factor; Gene expression; Glucocorticoid; Noradrenergic system; Neuroprotection (Riva, M.A. (57) 38)

Neurotensin receptor; mRNA; In situ hybridization; Ependymal cell; Neuron; Neuroendocrine; Dopaminergic control (Walker, N. (57) 193)

Nitric oxide synthase; Superoxide dismutase; Oxidative stress; Microglia; Alzheimer's disease; Aging; In situ hybridization; Neurodegenerative disease (Sugaya, K. (58) 1)

IGF; IGFBP; Brain; Rat; Growth factor; Hypoxia–ischemia; Neurone (Beilharz, E.J. (59) 119)

Glia activation
Alzheimer's disease; β-amyloid protein; NF-κB; IκB-α (Bales, K.R. (57) 63)

Glial cell
Capsaicin; Vanilloid receptor; Resiniferatoxin; Apoptosis; Differentiation (Bíró, T. (56) 89)

Vasopressin; *NGFI-A*; *zif/268*; ZENK; Immediate early response gene; Hippocampus; Astrocyte; Learning and memory (Diaz Brinton, R. (57) 73)

Proinflammatory mediators; Inflammation; Type II NOS; COX-2; PGHS-2 (Liu, Y. (59) 189)

Glial cell line-derived neurotrophic factor
GDNFR-α; c-*ret*; Receptor tyrosine kinase; Motor neuron; Axotomy; In situ hybridization histochemistry (Burazin, T.C.D. (55) 331)

Glioblastoma multiforme
TrkA; NGF; p75NTR (Rabin, S.J. (56) 273)

Alzheimer's disease; Astrocyte; Growth factor; Hypoxia; Immunocytochemistry; Ischemia; Vascular endothelial growth factor; Vascular smooth muscle cell (Kalaria, R.N. (62) 101)

Global cerebral ischemia
Hypothermia; Proliferating cell nuclear antigen (PCNA); Ref-1; DNA repair (Tomasevic, G. (60) 168)

Glucocorticoid
Nerve growth factor; Fibroblast growth factor-2; Dexamethasone; β-Adrenergic receptor; Hippocampus; Cerebral cortex (Colangelo, A.M. (53) 218)

Brain-derived neurotrophic factor; Exon; Seizure; In situ hybridization (Lauterborn, J.C. (55) 81)

c-*fos*; c-*jun*; Cell death; Apoptosis; Hypoxia–ischemia; Newborn; Rat (Macaya, A. (56) 29)

Fibroblast growth factor; Gene expression; Noradrenergic system; Neuroprotection; Glia (Riva, M.A. (57) 38)

11β-Hydroxysteroid dehydrogenase; Development; Cerebellum; Thalamus; Mineralocorticoid; Differentiation (Robson, A.C. (61) 1)

Glucocorticoid receptor
Mineralocorticoid receptor; Tree shrew; Hypothalamic–pituitary–adrenal axis; Stress (Meyer, U. (55) 243)

NGFI-A; Antidepressant; Hippocampus; Transcription factor (Johansson, I.-M. (62) 92)

Glucose metabolism
Hexokinase mRNA; In situ hybridization; Human brain (Cimino, M. (53) 297)

Glucose transporter
Arcuate nucleus; Hypothalamus; Insulin secretion (Leloup, C. (57) 275)

GluR2
Antisense; Knockdown; Hippocampus; Development; Neurodegeneration (Friedman, L.K. (61) 224)

Glutamate
MPP^+; A23187; Serum withdrawal; Calcium imaging (McMahon, A. (54) 56)

Excitatory amino acid; Metabotropic glutamate receptor; Glutamate transporter; In situ hybridization; Schizophrenia (Ohnuma, T. (56) 207)

Immediate early gene; NMDA; Dopamine; ACPD; MCPG; SCH-23390; CPP (Wang, J.Q. (57) 46)

Oxidative stress; Pheochromocytoma; *bcl-2*; Thiol; *cis*-parinaric acid (Tyurin, V.A. (60) 270)

Gene expression; Electroconvulsive shock; mRNA; Seizure (Watkins, C.J. (61) 108)

L-Glutamate
Metabotropic glutamate receptors; L-2-Amino-4-phosphonobutyrate; Cyclic AMP; Cloning; Complementary DNA; Nucleotides (Wu, S. (53) 88)

Glutamate–aspartate transporter (GLAST/GluT-1)
Kainic acid; Seizures; Hippocampus (Nonaka, M. (55) 54)

Glutamate receptor
Müller glia; Bergmann glia; Gene expression (López, T. (58) 40)

Cytokine; ED1; In situ hybridization histochemistry; Microglia; Neurodegeneration (Eriksson, C. (58) 195)

Glutamate transporter
Excitatory amino acid; Glutamate; Metabotropic glutamate receptor; In situ hybridization; Schizophrenia (Ohnuma, T. (56) 207)

Glutamic acid decarboxylase
Cerebellar granule cells; Herpes simplex virus; GABA; Neurotransmitter release; Virus vector (New, K.C. (61) 121)

Glutamine synthetase
Astrocytic differentiation; Protein kinase C (PKC); GFAP; Proliferation (Brodie, C. (56) 108)

Glutathione
Oxidative stress; Phosphoinositide hydrolysis; AP-1; NFκB; Diamide (Li, X. (53) 196)

Glutathione peroxidase
Cerebral ischemia/reperfusion damage; Reactive oxygen species; Transgenic mouse (Weisbrot-Lefkowitz, M. (53) 333)

Ischemia; Superoxide dismutase; Glutathione reductase; Mitochondrial respiration; Oxidative damage (Sims, N.R. (60) 141)

Glutathione reductase
Ischemia; Superoxide dismutase; Glutathione peroxidase; Mitochondrial respiration; Oxidative damage (Sims, N.R. (60) 141)

Glycoprotein
Cortex; Differential display; Olfactomedin; Rough endoplasmic reticulum (rER) (Nagano, T. (53) 13)

Glycosylation
Somatostatin; Somatostatin receptor 2; Immunocytochemistry; Cell line (Hervieu, G. (58) 138)

GnRH
NMDA; GT1-1 cell; Nitric oxide; Fos; Jun (Jung, N. (61) 162)

GnRH release
Gonadotropin-releasing hormone; Retinoic acid; GT1-1 cells; Transcriptional regulation (Cho, S. (54) 74)

Goldfish
Cytoskeleton; Intermediate filament protein; mRNA, regeneration; Visual pathway (Niloff, M.S. (61) 78)

Gonadotropin-releasing hormone receptor
Gonadotropin-releasing hormone; Estrogen; Progesterone; Gene expression; Antisense oligonucleotide; Preoptic area; Mediobasal hypothalamus; Rat (Seong, J.Y. (53) 226)

Gonadotropin-releasing hormone
Gonadotropin-releasing hormone receptor; Estrogen; Progesterone; Gene expression; Antisense oligonucleotide; Preoptic area; Mediobasal hypothalamus; Rat (Seong, J.Y. (53) 226)

Retinoic acid; GT1-1 cells; GnRH release; Transcriptional regulation (Cho, S. (54) 74)

G-protein
Antisense oligodeoxynucleotide; Analgesia; cAMP; Immunoblotting; Morphine; mRNA; Mouse; Opioid potency; RT-PCR; Striatum (Shen, J. (59) 247)

G protein-coupled receptor
Orphan receptor; Substantia nigra; Corpus callosum (Donohue, P.J. (54) 152)

Galanin; Gene structure; Signal transduction; Tissue distribution (Fathi, Z. (58) 156)

G-protein coupling
NPY receptor subtype; Rat brain; Autoradiography; GTPγ[^{35}S] (Primus, R.J. (58) 74)

G-protein-linked receptor
Polymerase chain reaction; Southern blot (Liu, I.S.C. (53) 98)

Atypical antipsychotic drugs; Schizophrenia (Qian, I.H.-P. (53) 339)

Granule cell
Chick embryo; EGL; *Sox* gene; Cerebellum (Rex, M. (55) 28)

Zinc finger motif; *wiz*; Cerebellum (Matsumoto, K. (61) 179)

Ground squirrel
cGMP; Phosphodiesterase; Cone; Photoreceptor; Signal transduction; cDNA; Polyclonal antibody; mRNA expression (Von Schantz, M. (54) 327)

Growth-associated protein
GAP-43; SNAP-25; Development; Regeneration (Wouters, B.C. (53) 53)

Growth-associated protein (GAP)-43
Brain-derived neurotrophic factor; Neurotrophin-3; Basic fibroblast growth factor; Microtubule-associated protein (MAP)2 (Kuroda, Y. (59) 35)

Growth factor
Tyrosine kinase; Ras; Nerve regeneration; ShcB; ShcC (Tanabe, K. (53) 291)

Acetylcholine receptor inducing activity; Spiral ganglion; Scarpa's ganglion; Cochlea; In situ hybridization (Morley, B.J. (54) 170)

Injury; Cryogenic (Cook, J.L. (55) 9)

κ-opioid receptor; Astrocytes; Oligodendrocytes; Microglia; Cyclic AMP (Tryoen-Toth, P. (55) 141)

Transcriptional regulation; Acetylcholine; Protein kinases (Moffett, J. (55) 293)

IGF; IGFBP; Brain; Rat; Hypoxia–ischemia; Neurone; Glia (Beilharz, E.J. (59) 119)

Alzheimer's disease; Astrocyte; Glioblastoma multiforme; Hypoxia; Immunocytochemistry; Ischemia; Vascular endothelial growth factor; Vascular smooth muscle cell (Kalaria, R.N. (62) 101)

GSK-3
Lithium; Gene expression; AP-1; Manic depressive; PKC (Yuan, P.-X. (58) 225)

GT1-1 cell
NMDA; GnRH; Nitric oxide; Fos; Jun (Jung, N. (61) 162)

GT1-1 cells
Gonadotropin-releasing hormone; Retinoic acid; GnRH release; Transcriptional regulation (Cho, S. (54) 74)

GTP
Adenylate kinase; ATP; Liver; Nasal cavity; Hippocampus (Yoneda, T. (62) 187)

GTPγ[^{35}S]
G-protein coupling; NPY receptor subtype; Rat brain; Autoradiography (Primus, R.J. (58) 74)

Guinea pig
Osmotic minipump; Electrophysiology; Immunocytochemistry; Inner ear (D'Aldin, C. (55) 151)

H

Hair cells
mRNA; Gene expression; Cochlea; Spiral ganglion; Nicotinic acetylcholine receptor subunits; In situ hybridization; RT–PCR (Morley, B.J. (53) 78)

Haloperidol
Aripiprazole; Dopamine receptor; [^{3}H]Spiperone-binding; RNase protection assay; Rat pituitary (Inoue, A. (55) 285)

Synaptobrevin; Synaptotagmin; Syntaxin; Rab 3A; Nucleus accumbens (Nakahara, T. (61) 238)

[^{3}H]dihydrotetrabenazine
Vesicular monoamine transporter; Estradiol; Progesterone; Serotonin; Dopamine (Rehavi, M. (57) 31)

Heart
Development; Enkephalin; Proopiomelanocortin; Prodynorphin (McLaughlin, P.J. (60) 160)

HEK293 cell
NMDA receptor; Desensitization; Inactivation; Patch clamp; Recombinant receptor; Hippocampal cell (Kendrick, S.J. (57) 10)

Herpes simplex virus
Cerebellar granule cells; Glutamic acid decarboxylase; GABA; Neurotransmitter release; Virus vector (New, K.C. (61) 121)

Hexokinase mRNA
Glucose metabolism; In situ hybridization; Human brain (Cimino, M. (53) 297)

Hippocampal cell
HEK293 cell; NMDA receptor; Desensitization; Inactivation; Patch clamp; Recombinant receptor (Kendrick, S.J. (57) 10)

Hippocampal cell culture
Excitotoxicity; Quinolinic acid; Gene expression; Proteasome; Protease nexin-1 (Seidel, B. (60) 296)

Hippocampal formation
BDNF; *trk*B; Quantitative RT-PCR; Ribonuclease protection assay (Tokuyama, W. (62) 206)

Hippocampal neuron
Calpain; Spectrin; Excitotoxicity; Imaging; Calcium; Primary culture (Adamec, E. (54) 35)

Calcium current; L-type channel; Trisomy 16; Down syndrome; Na^+/myo-inositol transporter; Mouse (Galdzicki, Z. (56) 200)

Hippocampal synaptosomes
Nitric oxide; γ-Aminobutyric acid; NNC-711; Exocytotic release; Carrier-mediated release (Sequeira, S.M. (55) 337)

Hippocampus
Neuronal nitric oxide synthase; mRNA; Hybridization; In situ; Digoxigenin; Rat brain (Iwase, K. (53) 1)

Calpain; Calpastatin; In situ hybridization; Spinal cord; *Mnd* mice (Li, J. (53) 174)

Nerve growth factor; Fibroblast growth factor-2; Dexamethasone; Glucocorticoid; β-Adrenergic receptor; Cerebral cortex (Colangelo, A.M. (53) 218)

5-HT1A receptor; In situ hybridization; Environmental enrichment; Neuronal plasticity (Rasmuson, S. (53) 285)

GABA transporter; mRNA; In situ hybridization; Kindling; Amygdala; Rat (Hirao, T. (54) 49)

Glutamate–aspartate transporter (GLAST/GluT-1); Kainic acid; Seizures (Nonaka, M. (55) 54)

Apoptosis; Programmed cell death; Bax; Bcl-2; Kindling; Epilepsy (Zhang, L.-X. (55) 198)

Adhesion protein; Brain; Astrocyte; Magnocellular nuclei; Long-term potentiation (Pinkstaff, J.K. (55) 265)

Microglia; NMDA; Chemokine; Excitotoxicity; Brain injury (Szaflarski, J. (55) 306)

Cortex; Gene expression; hsp40; Ischemia; Quantitative PCR; Rat brain (Paschen, W. (55) 341)

5-HT_{5A} receptor mRNA expression; In situ hybridization; Human central nervous system; Cortex; Cerebellum (Pasqualetti, M. (56) 1)

Kainic acid; Nitric oxide; Proenkephalin; Prodynorphin; Proto-oncogene (Won, J.-S. (56) 76)

$GABA_A$ receptor; Alzheimer's disease; In situ hybridization (Mizukami, K. (56) 268)

Vasopressin; *NGFI-A*; *zif/268*; ZENK; Immediate early response gene; Glial cell; Astrocyte; Learning and memory (Diaz Brinton, R. (57) 73)

Brain-derived neurotrophic factor; Tyrosine kinase receptor; Light–dark cycle; Cerebral cortex; RT-PCR (Bova, R. (57) 321)

PKN; Messenger RNA; In situ hybridization histochemistry; Cerebellum (Hashimoto, T. (59) 143)

Kainic acid; BDNF; Full-length TrkB; Truncated TrkB (Goutan, E. (59) 154)

Nurr1; mRNA; Kainic acid; Seizure; In situ hybridization (Crispino, M. (59) 178)

mRNA 5-HT_{1A} receptor; Human brain; Development; In situ hybridization; Prenatal; Cerebellum; Raphe nucleus (Del Olmo, E. (60) 123)

Brain-derived neurotrophic factor; Exon; Exercise; Rat (Oliff, H.S. (61) 147)

GluR2; Antisense; Knockdown; Development; Neurodegeneration (Friedman, L.K. (61) 224)

NGFI-A; Glucocorticoid receptor; Antidepressant; Transcription factor (Johansson, I.-M. (62) 92)

Adenylate kinase; ATP; GTP; Liver; Nasal cavity (Yoneda, T. (62) 187)

Histone acetylation
Trichostatin A; Sodium butyrate; Transcription factor (Salminen, A. (61) 203)

HMW MAP2
Alcohol; Ethanol; Extrapyramidal system; Northern; Dot blot hybridization; In situ hybridization; Neurotoxicity; Withdrawal (Putzke, J. (62) 196)

hsp40
Cortex; Gene expression; Hippocampus; Ischemia; Quantitative PCR; Rat brain (Paschen, W. (55) 341)

[^{3}H]Spiperone-binding
Aripiprazole; Haloperidol; Dopamine receptor; RNase protection assay; Rat pituitary (Inoue, A. (55) 285)

5-HT1A receptor
Hippocampus; In situ hybridization; Environmental enrichment; Neuronal plasticity (Rasmuson, S. (53) 285)

5-HT3-like receptor
Leech; Dopamine1-like receptor; Binding; Microsequencing; Cloning; Localization (Salzet, B. (58) 47)

***HTR2A* gene**
Genomic imprinting; Monoallelic expression; Neurobehavioral disorder; Pharmacogenetic (Bunzel, R. (59) 90)

5-HT_{2A} receptor
Serotonin; Frontal, cingulate and piriform cortex; Nucleus accumbens; Caudate-putamen; Aromatase (Sumner, B.E.H. (59) 205)

5-HT receptor
Astrocyte; Reverse transcriptase–polymerase chain reaction (RT-PCR); cAMP (Hirst, W.D. (61) 90)

5-HT_{5A} receptor mRNA expression
In situ hybridization; Human central nervous system; Cortex; Hippocampus; Cerebellum (Pasqualetti, M. (56) 1)

Human
Paired box gene; PAX-6; Alternative promoter; Gene transcription; Brain (Okladnova, O. (60) 177)

Human brain
Glucose metabolism; Hexokinase mRNA; In situ hybridization (Cimino, M. (53) 297)

MK-801; NMDA receptor; In situ hybridization; Rat brain (Meoni, P. (54) 13)

Sodium channel; Planar lipid bilayer; Batrachotoxin; Voltage-clamp (Frenkel, C. (59) 22)

mRNA 5-HT_{1A} receptor; Development; In situ hybridization; Prenatal; Cerebellum; Hippocampus; Raphe nucleus (Del Olmo, E. (60) 123)

Y_5 receptor mRNA; In situ hybridization; Neuropeptide Y; Food intake (Jacques, D. (61) 100)

Human central nervous system
5-HT_{5A} receptor mRNA expression; In situ hybridization; Cortex; Hippocampus; Cerebellum (Pasqualetti, M. (56) 1)

Human D_4 dopamine receptor
Schizophrenia; Ribonuclease protection assay; Frontal cortex; Caudate (Stefanis, N.C. (53) 112)

Human fetal brain
Nicotinic acetylcholine receptor; α4 Subunit; In situ hybridization; Anatomical localization; Fragile X syndrome (Agulhon, C. (58) 123)

Human hippocampus
Voltage-dependent calcium channels; Beta subunits; Immunocytochemistry; In situ hybridization (Day, N.C. (60) 259)

Human immunodeficiency virus
PA700; Protease; Multicatalytic proteinase; CAD protein (Nakamura, T. (53) 321)

Human neuronal
Anesthetic mechanisms; Intravenous anesthetic; Etomidate; Propofol; Ketamine; Patch-clamp-technique; Whole cell; Potassium; Extracellular concentration; Potassium current (Friederich, P. (60) 301)

Human thalamus
Calcium-binding proteins; Calretinin mRNA; In situ hybridization technique; Sensorimotor integration; Postmortem human tissue (Cicchetti, F. (54) 1)

Huntington's disease
GABAergic transmission; Basal ganglia (Caruncho, H.J. (57) 301)

Hybridization
Neuronal nitric oxide synthase; mRNA; In situ; Digoxigenin; Rat brain; Hippocampus (Iwase, K. (53) 1)

Conflict; Behavior; GABA (Zhang, L. (58) 16)

Hybridization, in situ
Synaptogenesis; Efferent; Olivocochlear; Organ of Corti (Simmons, D.D. (56) 287)

3-hydroxyanthranilate 3,4-dioxygenase
Epilepsy; El mouse; Quinolinic acid; Excitotoxin (Nakagawa, Y. (58) 132)

6-Hydroxydopamine
Antisense oligonucleotide; Dopamine receptor; Immediate-early gene; Striatum (Crocker, S.J. (53) 69)

6-hydroxydopamine
Dopamine receptor; Basal ganglia; Sensitization; Turning behavior; In situ hybridization (Van de Witte, S.V. (61) 219)

Hydroxyl radical
Peroxynitrite; GABA release; Cerebral cortical neurons (Higo, A. (62) 96)

11β-Hydroxysteroid dehydrogenase
Glucocorticoid; Development; Cerebellum; Thalamus; Mineralocorticoid; Differentiation (Robson, A.C. (61) 1)

5-Hydroxytryptamine
In situ hybridization; Enkephalin; Dynorphin; Substance P; GABA; Basal ganglia (Mijnster, M.J. (54) 64)

Hyperglycemia
Osmolyte; Hypertonicity; Na^+/*myo*-inositol cotransporter (Yamashita, T. (57) 167)

Hypertension
mRNA stability; Protein kinase C; Translation; Signal transduction (Sherer, T.B. (62) 167)

Hypertonicity
Hyperglycemia; Osmolyte; Na^+/*myo*-inositol cotransporter (Yamashita, T. (57) 167)

Hypothalamic–pituitary–adrenal axis
Glucocorticoid receptor; Mineralocorticoid receptor; Tree shrew; Stress (Meyer, U. (55) 243)

Hypothalamus
c-*fos*; Corticotropin-releasing factor; Cycloheximide; Paraventricular nucleus; Transcription factors; Vasopressin (Kovács, K.J. (54) 85)

Amygdala; 17β-estradiol; Steroid hormone; In situ hybridization (Österlund, M. (54) 175)

Estrogen; Fos; Jun; Pituitary; Protein–DNA interaction (Zhu, Y.-S. (55) 115)

Nitric oxide; Stress; Interleukin-1β; Corticotropin-releasing factor (Lee, S. (57) 54)

Glucose transporter; Arcuate nucleus; Insulin secretion (Leloup, C. (57) 275)

Interleukin; Cytokine; Neuroimmunology; Ventromedial nucleus; Nervous system; Feeding; Food intake; Rat; Intracerebroventricular (Plata-Salamán, C.R. (58) 188)

Estrogen; Enkephalin; Preoptic AREA; Sex difference; Opioid (Segarra, A.C. (60) 133)

Prolactin; Immediate early gene; Autofeedback (Sagrillo, C.A. (61) 62)

Hypothermia
Global cerebral ischemia; Proliferating cell nuclear antigen (PCNA); Ref-1; DNA repair (Tomasevic, G. (60) 168)

Hypoxia
Brain ischemia; *ARF4L*; Vesicle transport; Differential display (Katayama, T. (56) 66)

Apoptosis; Bcl-2; Caspase; Insulin-like growth factor-1; Basic fibroblast growth factor (Tamatani, M. (58) 27)

Developing brain neuron; Pre-conditioning; Apoptosis; Mitosis; Bcl-2; PCNA (Bossenmeyer-Pourié, C. (58) 237)

Barbiturate; VEGF; Endothelial cell (Fischer, S. (60) 89)

Alzheimer's disease; Astrocyte; Glioblastoma multiforme; Growth factor; Immunocytochemistry; Ischemia; Vascular endothelial growth factor; Vascular smooth muscle cell (Kalaria, R.N. (62) 101)

Hypoxia–ischemia
c-*fos*; c-*jun*; Cell death; Apoptosis; Glucocorticoid; Newborn; Rat (Macaya, A. (56) 29)

IGF; IGFBP; Brain; Rat; Growth factor; Neurone; Glia (Beilharz, E.J. (59) 119)

Hypoxia / reoxygenation
Yeast two-hybrid; cDNA; RNA splicing (Imai, Y. (53) 33)

I

Iba1
Microglia; Calcium binding protein; Facial nerve axotomy; Immunocytochemistry; Immunohistochemistry (Ito, D. (57) 1)

IGF
IGFBP; Brain; Rat; Growth factor; Hypoxia–ischemia; Neurone; Glia (Beilharz, E.J. (59) 119)

IGFBP
IGF; Brain; Rat; Growth factor; Hypoxia–ischemia; Neurone; Glia (Beilharz, E.J. (59) 119)

IGF-1 mRNA
Brain injury; Astrogliosis (Li, X.-s. (57) 92)

IκB-α
Alzheimer's disease; β-amyloid protein; NF-κB; Glia activation (Bales, K.R. (57) 63)

IL-6
TNF; Metallothionein-I, -II and -III; Stress; Endotoxin; Turpentine (Carrasco, J. (57) 221)

IL-1β
Lurcher mutant mouse; *staggerer* mutant mouse; Neurodegeneration; Cerebellum; Inflammation; Proinflammatory cytokine; ELISA (Vernet-der Garabedian, B. (62) 224)

Imaging
Hippocampal neuron; Calpain; Spectrin; Excitotoxicity; Calcium; Primary culture (Adamec, E. (54) 35)

Immediate early gene
Dopamine; AP-1; Striatum; FosB; Mouse (Pérez-Otaño, I. (53) 41)

Antisense oligonucleotide; Dopamine receptor; 6-Hydroxydopamine; Striatum (Crocker, S.J. (53) 69)

Synaptotagmin; Striatum; Cocaine; Amphetamine (Denovan-Wright, E.M. (55) 350)

Ischemia; Apoptosis; Selective vulnerability (McGahan, L. (56) 146)

Glutamate; NMDA; Dopamine; ACPD; MCPG; SCH-23390; CPP (Wang, J.Q. (57) 46)

c-*fos*; Kindling; Antisense oligodeoxynucleotide; Gene expression; Seizure (Chiasson, B.J. (57) 248)

c-*fos*; Phospholipid synthesis; Sensorial stimulation; Retina ganglion cell; Photoreceptor cell; Light stimulation (Bussolino, D.F. (58) 10)

Dopamine receptor; NMDA; Striatum; *zif 268*; *jun B* (Leslie, C.A. (59) 40)

Prolactin; Autofeedback; Hypothalamus (Sagrillo, C.A. (61) 62)

Cocaine; Fluoxetine; MAP kinase phosphatase; Psychostimulant; 5,7-Dihydroxytryptamine lesion; In situ hybridization (Thiriet, N. (62) 150)

Brain-derived neurotrophic factor; Barrel cortex (Nanda, S. (62) 216)

Immediate early response gene
Vasopressin; *NGFI-A*; *zif / 268*; ZENK; Hippocampus; Glial cell; Astrocyte; Learning and memory (Diaz Brinton, R. (57) 73)

c-*fos*; Transcription factor; Activator protein-1 complex; Tyrosine hydroxylase; Catecholamine; Adaptation (Mishra, R.R. (59) 74)

Immune response
Interleukin-6; In situ hybridization; Allodynia; Nerve injury (Arruda, J.L. (62) 228)

Immune stimulation
Kynurenine; Neurodegeneration; Microglia; Macrophage (Barattè, S. (59) 50)

Immunhistochemistry
$P2X_7$-receptor; Purinergic receptors; Rat; Retina; Choroid; RT-PCR (Brändle, U. (62) 106)

Immunoblot
Kindling; Epilepsy; NMDA receptor; Subunit composition; Plasticity (Kraus, J.E. (61) 114)

Immunoblotting
Antisense oligodeoxynucleotide; Analgesia; cAMP; G-protein; Morphine; mRNA; Mouse; Opioid potency; RT-PCR; Striatum (Shen, J. (59) 247)

γ-Aminobutyric acid; Receptor regulation; Mutant mice; Development (Thompson, C.L. (60) 282)

Immunocytochemistry
Serotonin; Receptor; Antibody; Rat (Hamada, S. (54) 199)

Osmotic minipump; Electrophysiology; Inner ear; Guinea pig (D'Aldin, C. (55) 151)

Iba1; Microglia; Calcium binding protein; Facial nerve axotomy; Immunohistochemistry (Ito, D. (57) 1)

Somatostatin; Somatostatin receptor 2; Cell line; Glycosylation (Hervieu, G. (58) 138)

Purkinje cell; Cerebellar granule cell; In situ hybridization histochemistry; Myoclonus; Ataxia; Ion channel mutation (Lau, F.C. (59) 93)

NGF; BDNF; Northern blot; In situ hybridization; Western blot; Cell culture; Vaccinia virus infection (Marcinkiewicz, M. (59) 229)

Voltage-dependent calcium channels; Beta subunits; Human hippocampus; In situ hybridization (Day, N.C. (60) 259)

Alzheimer's disease; Astrocyte; Glioblastoma multiforme; Growth factor; Hypoxia; Ischemia; Vascular endothelial growth factor; Vascular smooth muscle cell (Kalaria, R.N. (62) 101)

Immunofluorescence
Carboxyl terminus; Etorphine; μ- and δ-opioid receptor; Down-regulation (Afify, E.A. (54) 24)

Immunohistochemistry
Astrocyte; Oligodendrocyte; RT-PCR (García-Barcina, J.M. (53) 270)

Iba1; Microglia; Calcium binding protein; Facial nerve axotomy; Immunocytochemistry (Ito, D. (57) 1)

Metabotropic glutamate receptor; Antibody; Western blot; Cerebellar cortex (Phillips, T. (57) 132)

PCPTP1-Ce; *PCPTP1*; cDNA; Protein tyrosine phosphatase; Purkinje cell; Cerebellum; In situ hybridization (Watanabe, Y. (58) 83)

Amyloid beta-protein; Cytochrome oxidase; In situ hybridization; Mitochondria; Polyadenylated mRNA (Hatanpää, K. (59) 13)

Basic helix–loop–helix protein; Phosphorylation (Kume, H. (60) 107)

C1 adrenaline neuron; Rostral ventrolateral medulla; RVL; NAT; Single-cell RT-PCR (Comer, A.M. (62) 65)

Immunostain
G-Protein-coupled receptor; Protein synthesis; Subcellular fractionation; Radioligand binding; Neuroblastoma cell (McIntosh, H.H. (53) 163)

Inactivation
HEK293 cell; NMDA receptor; Desensitization; Patch clamp; Recombinant receptor; Hippocampal cell (Kendrick, S.J. (57) 10)

Induction
MnSOD; Superoxide; Mitochondria; mRNA; Differential display; Stathmin (Li, Y. (55) 277)

Inflammation
Cytokine; Gene expression; Secondary injury; Transcription factor (Xu, J. (59) 135)

Proinflammatory mediators; Glial cells; Type II NOS; COX-2; PGHS-2 (Liu, Y. (59) 189)

Microglia; Astrocyte; Interferon-inducible protein 10; Differential display; LPS; Fever; Rat brain (Ren, L.-q. (59) 256)

Lurcher mutant mouse; *staggerer* mutant mouse; Neurodegeneration; Cerebellum; Proinflammatory cytokine; IL-1β; ELISA (Vernet-der Garabedian,B. (62) 224)

Injury
Cryogenic; Growth factor (Cook, J.L. (55) 9)

Trigeminal neuron; Neurotrophin; trk Receptor; Dental pulp; Nociception; Retrograde transport (Wheeler, E.F. (61) 23)

Axotomy; c-Jun; Dorsal root ganglia; Ischemia; Rat (Martin-Villalba, A. (62) 158)

Inner ear
Osmotic minipump; Electrophysiology; Immunocytochemistry; Guinea pig (D'Aldin, C. (55) 151)

Natriuretic peptide; ANP-A receptor; ANP-B receptor; ANP-C receptor; Polymerase chain reaction (Suzuki, M. (55) 165)

Inositol phospholipid hydrolysis
Pituitary adenylate cyclase activating polypeptide (PACAP); Vasoactive intestinal peptide (VIP); Receptor; Retina; mRNA; cAMP (D'Agata, V. (54) 161)

Inositol 1,4,5-triphosphate
Alcoholism; Ischemia; Stroke; In situ hybridization; Calcium ATPase (Xia, J. (56) 22)

Inositol 1,4,5-trisphosphate
β-Amyloid precursor protein; GAP-43; MARCKS; Phospholipase Cγ1; Protein kinase C; Signal transduction (Ishiguro, M. (53) 24)

Inositol trisphosphate receptor
Lysophosphatidic acid; Phospholipase C; Araguspongine E/xestospongin C; Signal transduction; *Xenopus* oocyte (Kakizawa, K. (61) 232)

In situ
Neuronal nitric oxide synthase; mRNA; Hybridization; Digoxigenin; Rat brain; Hippocampus (Iwase, K. (53) 1)

Cytokine receptors; Interleukin-2; Brain; Neurobiology; Molecular cloning (Petitto, J.M. (53) 152)

In situ hybridization
mRNA; Gene expression; Cochlea; Hair cells; Spiral ganglion; Nicotinic acetylcholine receptor subunits; RT–PCR (Morley, B.J. (53) 78)

Calpain; Calpastatin; Hippocampus; Spinal cord; *Mnd* mice (Li, J. (53) 174)

5-HT1A receptor; Hippocampus; Environmental enrichment; Neuronal plasticity (Rasmuson, S. (53) 285)

Glucose metabolism; Hexokinase mRNA; Human brain (Cimino, M. (53) 297)

NMDA; AMPA (Kohama, S.G. (53) 328)

MK-801; NMDA receptor; Human brain; Rat brain (Meoni, P. (54) 13)

GABA transporter; mRNA; Kindling; Hippocampus; Amygdala; Rat (Hirao, T. (54) 49)

Enkephalin; Dynorphin; Substance P; GABA; Basal ganglia; 5-Hydroxytryptamine (Mijnster, M.J. (54) 64)

Acetylcholine receptor inducing activity; Spiral ganglion; Scarpa's ganglion; Cochlea; Growth factor (Morley, B.J. (54) 170)

Amygdala; Hypothalamus; 17β-estradiol; Steroid hormone (Österlund, M. (54) 175)

Presenilin-1; Alzheimer's disease; Brain ischemia (Tanimukai, H. (54) 212)

DP5; BH3 domain; Developing nervous system; Apoptosis; Gene expression (Kanazawa, K.-y. (54) 316)

Brain-derived neurotrophic factor; Exon; Seizure; Glucocorticoid (Lauterborn, J.C. (55) 81)

Depression; Serotonin receptor; Steroid hormone; Estrogen; Brain (Österlund, M.K. (55) 169)

Voltage-dependent calcium channel; Retina; Gene expression; mRNA (Kamphuis, W. (55) 209)

Morphine withdrawal; Body weight loss; Plasma corticosterone elevation; Preproenkephalin mRNA; Caudal periaqueductal gray; Rat (Fukunaga, Y. (55) 221)

5-HT_{5A} receptor mRNA expression; Human central nervous system; Cortex; Hippocampus; Cerebellum (Pasqualetti, M. (56) 1)

Alcoholism; Ischemia; Stroke; Inositol 1,4,5-triphosphate; Calcium ATPase (Xia, J. (56) 22)

Cyclooxygenase-2; Prostaglandin; Fever; Brain; Endothelial cell; Tumor necrosis factor (Cao, C. (56) 45)

Excitatory amino acid; Glutamate; Metabotropic glutamate receptor; Glutamate transporter; Schizophrenia (Ohnuma, T. (56) 207)

$GABA_A$ receptor; Alzheimer's disease; Hippocampus (Mizukami, K. (56) 268)

Electroconvulsive shock; BDNF; Rat brain; Antidepressant; mRNA (Zetterström, T.S.C. (57) 106)

Rat brain; CGRP; Oligonucleotide; Adrenomedullin (Oliver, K.R. (57) 149)

Neurotensin receptor; mRNA; Ependymal cell; Glia; Neuron; Neuroendocrine; Dopaminergic control (Walker, N. (57) 193)

REM sleep deprivation; Tyrosine hydroxylase; Norepinephrine transporter; Locus coeruleus (Basheer, R. (57) 235)

Enkephalin; mRNA expression; Substance P; Thalamus (Salin, P. (57) 257)

Limbic system; Olfactory bulb; Striatum; Tachykinin receptor (Pesini, P. (57) 281)

Nitric oxide synthase; Superoxide dismutase; Oxidative stress; Microglia; Alzheimer's disease; Aging; Neurodegenerative disease; Glia (Sugaya, K. (58) 1)

PCPTP1-Ce; *PCPTP1*; cDNA; Protein tyrosine phosphatase; Purkinje cell; Cerebellum; Immunohistochemistry (Watanabe, Y. (58) 83)

Nicotinic acetylcholine receptor; α4 Subunit; Human fetal brain; Anatomical localization; Fragile X syndrome (Agulhon, C. (58) 123)

Amyloid beta-protein; Cytochrome oxidase; Immunohistochemistry; Mitochondria; Polyadenylated mRNA (Hatanpää, K. (59) 13)

Neuropeptide Y receptor; Genetic rat model; Depression; Flinders sensitive line rats; Fluoxetine (Caberlotto, L. (59) 58)

Estrogen; Neuronal nitric oxide synthase; mRNA; Ventromedial hypothalamus (Rachman, I.M. (59) 105)

Nurr1; mRNA; Kainic acid; Seizure; Hippocampus (Crispino, M. (59) 178)

NGF; BDNF; Northern blot; Western blot; Immunocytochemistry; Cell culture; Vaccinia virus infection (Marcinkiewicz, M. (59) 229)

Traumatic brain injury; Lateral fluid percussion; Neurotrophin receptors; Neuronal plasticity (Hicks, R.R. (59) 264)

NPY; POMC; Gene expression; Obesity; Neuropeptide (Guan, X.-M. (59) 273)

LHRH; Seabream-GnRH; Chicken II-GnRH; Salmon-GnRH; Terminal nerve; Nucleus olfactoretinalis; Preoptic area; Midbrain (Soga, T. (60) 13)

mRNA 5-HT_{1A} receptor; Human brain; Development; Prenatal; Cerebellum; Hippocampus; Raphe nucleus (Del Olmo, E. (60) 123)

Suprachiasmatic nuclei; Postnatal; Development; Melatonin receptor; Syrian hamster (Gauer, F. (60) 193)

Gαi2-protein; Gαo-protein; Mouse; Vomeronasal receptor (Saito, H. (60) 215)

Renin–angiotensin system; Angiotensin receptor; AT_1 receptor antagonist; Gerbil; Receptor sequence (Moriuchi, R. (60) 234)

Voltage-dependent calcium channels; Beta subunits; Human hippocampus; Immunocytochemistry (Day, N.C. (60) 259)

Morphine; Sensitization; Striatum; c-*fos* (Erdtmann-Vourliotis, M. (61) 51)

Y_5 receptor mRNA; Human brain; Neuropeptide Y; Food intake (Jacques, D. (61) 100)

6-hydroxydopamine; Dopamine receptor; Basal ganglia; Sensitization; Turning behavior (Van de Witte, S.V. (61) 219)

Cocaine; Fluoxetine; MAP kinase phosphatase; Immediate early gene; Psychostimulant; 5,7-Dihydroxytryptamine lesion (Thiriet, N. (62) 150)

Alcohol; Ethanol; Extrapyramidal system; HMW MAP2; Northern; Dot blot hybridization; Neurotoxicity; Withdrawal (Putzke, J. (62) 196)

Interleukin-6; Allodynia; Nerve injury; Immune response (Arruda, J.L. (62) 228)

In situ hybridization histochemistry
Suprachiasmatic nuclei; Caudate putamen; Cerebral cortex; Circadian rhythm; Protein kinase C (Cagampang, F.R.A. (53) 277)

Suprachiasmatic nuclei; Circadian rhythm; VIP; VIP2 receptor (Cagampang, F.R.A. (54) 108)

Ca^{2+}/calmodulin-dependent protein kinase kinase; Rat; Brain (Sakagami, H. (54) 311)

Arcuate nucleus; β-endorphin; Female guinea pig; Median eminence; Morphine pellet (Fang, Y. (55) 1)

Glial cell line-derived neurotrophic factor; GDNFR-α; c-*ret*; Receptor tyrosine kinase; Motor neuron; Axotomy (Burazin, T.C.D. (55) 331)

Cytokine; ED1; Glutamate receptor; Microglia; Neurodegeneration (Eriksson, C. (58) 195)

Purkinje cell; Cerebellar granule cell; Immunocytochemistry; Myoclonus; Ataxia; Ion channel mutation (Lau, F.C. (59) 93)

PKN; Messenger RNA; Hippocampus; Cerebellum (Hashimoto, T. (59) 143)

Cortical spreading depression; Cholecystokinin; Enkephalin; Dynorphin; Corpus striatum; Corticostriatal neurons (Arabia, A.-M. (61) 195)

In situ hybridization technique
Calcium-binding proteins; Calretinin mRNA; Human thalamus; Sensorimotor integration; Postmortem human tissue (Cicchetti, F. (54) 1)

Insoluble
Alzheimer's disease; Presenilin-1; *APP717*; Amyloid deposition (Mori, H. (56) 178)

Insulin-like growth factor-1
Apoptosis; Bcl-2; Caspase; Hypoxia; Basic fibroblast growth factor (Tamatani, M. (58) 27)

Insulin secretion
Glucose transporter; Arcuate nucleus; Hypothalamus (Leloup, C. (57) 275)

Interferon-inducible protein 10
Microglia; Astrocyte; Differential display; LPS; Fever; Inflammation; Rat brain (Ren, L.-q. (59) 256)

Interleukin-2
Cytokine receptors; Brain; Neurobiology; Molecular cloning; In situ (Petitto, J.M. (53) 152)

Interleukin-6
Alzheimer's; Beta amyloid precursor protein; Soluble interleukin-6 receptor (Ringheim, G.E. (55) 35)

Interleukin
Cytokine; Neuroimmunology; Hypothalamus; Ventromedial nucleus; Nervous system; Feeding; Food intake; Rat; Intracerebroventricular (Plata-Salamán, C.R. (58) 188)

Interleukin-6
In situ hybridization; Allodynia; Nerve injury; Immune response (Arruda, J.L. (62) 228)

Interleukin-1β
Nitric oxide; Stress; Corticotropin-releasing factor; Hypothalamus (Lee, S. (57) 54)

Intermediate filament protein
Cytoskeleton; Goldfish; mRNA, regeneration; Visual pathway (Niloff, M.S. (61) 78)

Intracerebroventricular
Interleukin; Cytokine; Neuroimmunology; Hypothalamus; Ventromedial nucleus; Nervous system; Feeding; Food intake; Rat (Plata-Salamán, C.R. (58) 188)

Intravenous anesthetic
Anesthetic mechanisms; Etomidate; Propofol; Ketamine; Patch-clamp-technique; Whole cell; Potassium; Extracellular concentration; Potassium current; Human neuronal (Friederich, P. (60) 301)

In vitro
FGF-2 isoform; Transfection; Differentiation; Rat cell line; Schwann cell; PC12 cell (Grothe, C. (57) 97)

In vitro transcription
Neurofilament; Modular promoter; Tissue-specific gene expression; Chromatin (Schwartz, M.L. (57) 21)

Ion channel mutation
Purkinje cell; Cerebellar granule cell; In situ hybridization histochemistry; Immunocytochemistry; Myoclonus; Ataxia (Lau, F.C. (59) 93)

IQ motif
Peptide; Purification; Cloning; Calmodulin; MBF1 (Smith, M.L. (62) 12)

Ischemia
Cortex; Gene expression; Hippocampus; hsp40; Quantitative PCR; Rat brain (Paschen, W. (55) 341)

Alcoholism; Stroke; In situ hybridization; Inositol 1,4,5-triphosphate; Calcium ATPase (Xia, J. (56) 22)

Proto-oncogene; Tumor suppressor gene; Apoptosis; Selective vulnerability (McGahan, L. (56) 133)

Immediate-early gene; Apoptosis; Selective vulnerability (McGahan, L. (56) 146)

Gene expression; Blood–brain barrier; Brain; Testis (Tsukamoto, H. (58) 170)

Superoxide dismutase; Glutathione peroxidase; Glutathione reductase; Mitochondrial respiration; Oxidative damage (Sims, N.R. (60) 141)

Alzheimer's disease; Astrocyte; Glioblastoma multiforme; Growth factor; Hypoxia; Immunocytochemistry; Vascular endothelial growth factor; Vascular smooth muscle cell (Kalaria, R.N. (62) 101)

Axotomy; c-Jun; Dorsal root ganglia; Injury; Rat (Martin-Villalba, A. (62) 158)

Ischemic core
ORP150; Brain ischemia; Degenerating neuron; Stress protein; Chaperon (Matsushita, K. (60) 98)

Isoproterenol
Cysteine proteinase inhibitor; Cystatin S; Submandibular gland; Parasympathectomy; Denervation (Chaparro, O. (61) 136)

J

JNK
PDGF; PDGF receptor; MAP kinase; ERK; Mouse (Hu, Y. (53) 251)

Stress-activated protein kinase; MAPK; Central nervous system (Carboni, L. (60) 57)

Jun
Estrogen; Fos; Hypothalamus; Pituitary; Protein–DNA interaction (Zhu, Y.-S. (55) 115)

NMDA; GnRH; GT1-1 cell; Nitric oxide; Fos (Jung, N. (61) 162)

jun B
Dopamine receptor; NMDA; Striatum; *zif 268*; Immediate early gene (Leslie, C.A. (59) 40)

c-Jun
Cyclic AMP response element binding protein; CREB phosphorylation; Fos; Fra; Dynorphin; Nociception (Messersmith, D.J. (53) 259)

Sodium valproate; Lithium chloride; c-Fos; Fos-related antigen; Activity protein-1 binding; Bipolar disorder (Asghari, V. (58) 95)

Cell death; c-Fos; NF-κB; DNA fragmentation; Cell free system (Solovyan, V. (62) 43)

Axotomy; Dorsal root ganglia; Injury; Ischemia; Rat (Martin-Villalba, A. (62) 158)

K

Kainic acid
Antisense oligonucleotide; c-*fos*; Dentate gyrus; Opioid gene; Seizure; Transcription factor; Regulation of gene expression (Ziółkowska, B. (54) 243)

Glutamate–aspartate transporter (GLAST/GluT-1); Seizures; Hippocampus (Nonaka, M. (55) 54)

Nitric oxide; Proenkephalin; Prodynorphin; Proto-oncogene; Hippocampus (Won, J.-S. (56) 76)

BDNF; Full-length TrkB; Truncated TrkB; Hippocampus (Goutan, E. (59) 154)

Nurr1; mRNA; Seizure; Hippocampus; In situ hybridization (Crispino, M. (59) 178)

Excitotoxicity; Rat; Substance P; Seizure (Zachrisson, O. (60) 291)

K^+ channel
Voltage-gated; PCR; Evolution; Electric fish (Rashid, A.J. (54) 101)

Ketamine
Anesthetic mechanisms; Intravenous anesthetic; Etomidate; Propofol; Patch-clamp-technique; Whole cell; Potassium; Extracellular concentration; Potassium current; Human neuronal (Friederich, P. (60) 301)

Kinase inhibitor
Trapoxin; Butyrate; MAP kinase (Espinos, E. (56) 118)

Kindling
GABA transporter; mRNA; In situ hybridization; Hippocampus; Amygdala; Rat (Hirao, T. (54) 49)

Apoptosis; Programmed cell death; Bax; Bcl-2; Epilepsy; Hippocampus (Zhang, L.-X. (55) 198)

Immediate-early gene; c-*fos*; Antisense oligodeoxynucleotide; Gene expression; Seizure (Chiasson, B.J. (57) 248)

Epilepsy; NMDA receptor; Subunit composition; Immunoblot; Plasticity (Kraus, J.E. (61) 114)

Knockdown
GluR2; Antisense; Hippocampus; Development; Neurodegeneration (Friedman, L.K. (61) 224)

Knockout
μ-Opioid receptor; Morphine; Gastrointestinal motility (Roy, S. (56) 281)

μ-Opioid receptor; Morphine; T-cells; Macrophage (Roy, S. (61) 190)

Kynurenine
Neurodegeneration; Immune stimulation; Microglia; Macrophage (Barattè, S. (59) 50)

L

LAR
Protein tyrosine phosphatase; Leukocyte common antigen related gene; Proximal membrane; PC12 cell; Cell adhesion molecule (Honkaniemi, J. (60) 1)

Large protein
Spectrin; Comprehensive cDNA analysis; Gene discovery; Brain (Ohara, O. (57) 181)

Lateral fluid percussion
Traumatic brain injury; Neurotrophin receptors; In situ hybridization; Neuronal plasticity (Hicks, R.R. (59) 264)

Learning and memory
Vasopressin; *NGFI-A*; *zif / 268*; ZENK; Immediate early response gene; Hippocampus; Glial cell; Astrocyte (Diaz Brinton, R. (57) 73)

Leech
Dopamine1-like receptor; 5-HT3-like receptor; Binding; Microsequencing; Cloning; Localization (Salzet, B. (58) 47)

Leucine-rich repeat
Slit; EGF-like; *Drosophila* (Itoh, A. (62) 175)

Leukocyte common antigen related gene
Protein tyrosine phosphatase; LAR; Proximal membrane; PC12 cell; Cell adhesion molecule (Honkaniemi, J. (60) 1)

LHRH
Seabream-GnRH; Chicken II-GnRH; Salmon-GnRH; Terminal nerve; Nucleus olfactoretinalis; Preoptic area; Midbrain; In situ hybridization (Soga, T. (60) 13)

Ligand binding
Angiotensin; Amino terminus; Mutagenesis (Yee, D.K. (57) 325)

Light
mGluR6; CREB; Retina; Phosphorylation; c-*fos* (Yoshida, K. (57) 241)

Light–dark cycle
Brain-derived neurotrophic factor; Tyrosine kinase receptor; Cerebral cortex; Hippocampus; RT-PCR (Bova, R. (57) 321)

Light stimulation
c-*fos*; Phospholipid synthesis; Immediate early gene; Sensorial stimulation; Retina ganglion cell; Photoreceptor cell (Bussolino, D.F. (58) 10)

Limbic system
In situ hybridization; Olfactory bulb; Striatum; Tachykinin receptor (Pesini, P. (57) 281)

Developmental toxicity; Opiate neuropeptides; Dopaminoceptive neurons; Functional marker; Drugs of abuse; Long-term cocaine effects (Dow-Edwards, D.L. (62) 82)

Lipocortin
Annexin; Astrocyte; Neurotrophic action (Mizuno, H. (60) 28)

Lipopolysaccharides
Microglial activation; Differential display; Squamous cell carcinoma antigen and serine proteinase inhibitor (Thakker-Varia, S. (56) 99)

Lithium
Gene expression; AP-1; GSK-3; Manic depressive; PKC (Yuan, P.-X. (58) 225)

Lithium chloride
Sodium valproate; c-Fos; c-Jun; Fos-related antigen; Activity protein-1 binding; Bipolar disorder (Asghari, V. (58) 95)

Liver
Adenylate kinase; ATP; GTP; Nasal cavity; Hippocampus (Yoneda, T. (62) 187)

Localization
Leech; Dopamine1-like receptor; 5-HT3-like receptor; Binding; Microsequencing; Cloning (Salzet, B. (58) 47)

Locomotion
GABA receptor; Cocaine; Stereotypy; Antisense oligodeoxynucleotide (Peris, J. (57) 310)

Locus coeruleus
REM sleep deprivation; Tyrosine hydroxylase; Norepinephrine transporter; In situ hybridization (Basheer, R. (57) 235)

Long-term cocaine effects
Developmental toxicity; Opiate neuropeptides; Dopaminoceptive neurons; Limbic system; Functional marker; Drugs of abuse (Dow-Edwards, D.L. (62) 82)

Long-term potentiation
Adhesion protein; Brain; Astrocyte; Hippocampus; Magnocellular nuclei (Pinkstaff, J.K. (55) 265)

Calcium-calmodulin-dependent protein kinase II; Microtubule-associated protein 2; Rat; Gene expression (Roberts, L.A. (56) 38)

NMDA receptor; Memory (Williams, J.M. (60) 21)

Mitochondria; Memory (Williams, J.M. (60) 50)

LPS
Microglia; Astrocyte; Interferon-inducible protein 10; Differential display; Fever; Inflammation; Rat brain (Ren, L.-q. (59) 256)

L-type channel
Calcium current; Trisomy 16; Down syndrome; Na^+/myo-inositol transporter; Hippocampal neuron; Mouse (Galdzicki, Z. (56) 200)

Luciferase
Bovine; Galanin; Gene expression; mRNA; Promoter; Transgenic mouse (Rökaeus, Å. (60) 150)

***Lurcher* mutant mouse**
staggerer mutant mouse; Neurodegeneration; Cerebellum; Inflammation; Proinflammatory cytokine; IL-1β; ELISA (Vernet-der Garabedian, B. (62) 224)

Lysophosphatidic acid
Neurite retraction; NG108-15 cell; PC12 cell; F-actin; Neuroprotection (Magazin, M. (53) 301)

Phospholipase C; Araguspongine E/xestospongin C; Inositol trisphosphate receptor; Signal transduction; *Xenopus* oocyte (Kakizawa, K. (61) 232)

M

Macrophage
Kynurenine; Neurodegeneration; Immune stimulation; Microglia (Barattè, S. (59) 50)

Knockout; μ-Opioid receptor; Morphine; T-cells (Roy, S. (61) 190)

Magnocellular nuclei
Adhesion protein; Brain; Astrocyte; Hippocampus; Long-term potentiation (Pinkstaff, J.K. (55) 265)

Mammillary nucleus
CP-55,940; Tetrahydrocannabinol; *R*-methanandamide; Proenkephalin; mRNA; Ventromedial nucleus; Striatum; Periaqueductal grey (Manzanares, J. (55) 126)

***μ*- and *δ*-opioid receptor**
Carboxyl terminus; Etorphine; Down-regulation; Immunofluorescence (Afify, E.A. (54) 24)

Manic depressive
Lithium; Gene expression; AP-1; GSK-3; PKC (Yuan, P.-X. (58) 225)

MAPK
Stress-activated protein kinase; JNK; Central nervous system (Carboni, L. (60) 57)

MAP kinase
PDGF; PDGF receptor; ERK; JNK; Mouse (Hu, Y. (53) 251)

Trapoxin; Butyrate; Kinase inhibitor (Espinos, E. (56) 118)

MAP kinase phosphatase
Cocaine; Fluoxetine; Immediate early gene; Psychostimulant; 5,7-Dihydroxytryptamine lesion; In situ hybridization (Thiriet, N. (62) 150)

MARCKS
β-Amyloid precursor protein; GAP-43; Inositol 1,4,5-trisphosphate; Phospholipase Cγ1; Protein kinase C; Signal transduction (Ishiguro, M. (53) 24)

MBF1
Peptide; Purification; Cloning; IQ motif; Calmodulin (Smith, M.L. (62) 12)

MCF7
Oxytocin receptor; Promoter; Transfection; SK-N-SH; Phorbol 12-myristate 13-acetate; Forskolin (Bale, T.L. (53) 130)

MCPG
Dynorphin; Substance P; Enkephalin; ACPD; Caudoputamen; Accumbens; Behavior (Wang, J.Q. (54) 262)

Immediate early gene; Glutamate; NMDA; Dopamine; ACPD; SCH-23390; CPP (Wang, J.Q. (57) 46)

Median eminence
Arcuate nucleus; β-endorphin; Female guinea pig; In situ hybridization histochemistry; Morphine pellet (Fang, Y. (55) 1)

Mediobasal hypothalamus
Gonadotropin-releasing hormone; Gonadotropin-releasing hormone receptor; Estrogen; Progesterone; Gene expression; Antisense oligonucleotide; Preoptic area; Rat (Seong, J.Y. (53) 226)

Melatonin
Tryptophan hydroxylase; Retina; Pineal gland; Circadian clock; Photoreceptor cells (Chong, N.W. (61) 243)

Melatonin receptor
Suprachiasmatic nuclei; Postnatal; Development; In situ hybridization; Syrian hamster (Gauer, F. (60) 193)

Membrane depolarization
BDNF; Cerebellar granule cell; Cell survival; Calcium (Ichikawa, D. (56) 218)

Memory
NMDA receptor; Long-term potentiation (Williams, J.M. (60) 21)

Mitochondria; Long-term potentiation (Williams, J.M. (60) 50)

Mesencephalon
Behavioral sensitization; Striatum; Nucleus accumbens; RNase protection assay; Dopamine (Michelhaugh, S.K. (62) 35)

Message distribution
NPY; Receptor; Species (Burkhoff, A.M. (53) 311)

Messenger RNA
PKN; In situ hybridization histochemistry; Hippocampus; Cerebellum (Hashimoto, T. (59) 143)

Metabotropic glutamate receptors
L-2-Amino-4-phosphonobutyrate; L-Glutamate; Cyclic AMP; Cloning; Complementary DNA; Nucleotides (Wu, S. (53) 88)

Metabotropic glutamate receptor
Excitatory amino acid; Glutamate; Glutamate transporter; In situ hybridization; Schizophrenia (Ohnuma, T. (56) 207)

Immunohistochemistry; Antibody; Western blot; Cerebellar cortex (Phillips, T. (57) 132)

Metabotropic receptor
Striatum; Decortication; 6-OHDA lesion (Friberg, I.K. (54) 298)

Metallothionein-I, -II and -III
IL-6; TNF; Stress; Endotoxin; Turpentine (Carrasco, J. (57) 221)

Methamphetamine
c-*fos* mRNA; Oxidative stress; *Zif268* mRNA; Egr-1 (Hirata, H. (58) 209)

Transcription factor; NF-κB; Superoxide dismutase; Transgenic mice; Reactive oxygen species (Asanuma, M. (60) 305)

Methyl-isobutyl amiloride
Amiloride; Blood–brain barrier; Cerebral cortex; Cerebral microvessel; Choroid plexus; Na^+/H^+ exchanger (Kalaria, R.N. (58) 178)

mGluR6
CREB; Light; Retina; Phosphorylation; c-*fos* (Yoshida, K. (57) 241)

Microdissection
Prolactin receptor; mRNA; Rat hypothalamus; RT-PCR; Southern hybridization (Pi, X.-J. (59) 1)

Microglia
κ-opioid receptor; Astrocytes; Oligodendrocytes; Growth factors; Cyclic AMP (Tryoen-Toth, P. (55) 141)

NMDA; Chemokine; Excitotoxicity; Hippocampus; Brain injury (Szaflarski, J. (55) 306)

Iba1; Calcium binding protein; Facial nerve axotomy; Immunocytochemistry; Immunohistochemistry (Ito, D. (57) 1)

Nitric oxide synthase; Superoxide dismutase; Oxidative stress; Alzheimer's disease; Aging; In situ hybridization; Neurodegenerative disease; Glia (Sugaya, K. (58) 1)

Cytokine; ED1; Glutamate receptor; In situ hybridization histochemistry; Neurodegeneration (Eriksson, C. (58) 195)

Kynurenine; Neurodegeneration; Immune stimulation; Macrophage (Barattè, S. (59) 50)

Astrocyte; Interferon-inducible protein 10; Differential display; LPS; Fever; Inflammation; Rat brain (Ren, L.-q. (59) 256)

Somatostatin receptor; Octreotide; Proliferation; Phosphorylation (Feindt, J. (60) 228)

CEBP; Transcription factor (Walton, M. (61) 11)

Microglial activation
Lipopolysaccharides; Differential display; Squamous cell carcinoma antigen and serine proteinase inhibitor (Thakker-Varia, S. (56) 99)

Microsequencing
Leech; Dopamine1-like receptor; 5-HT3-like receptor; Binding; Cloning; Localization (Salzet, B. (58) 47)

Microtubule
Angiotensin II; AT_2 receptor; PC12W cell; Nerve growth factor; Neurite extension (Stroth, U. (53) 187)

Alzheimer's; Creatine kinase; Activity; Photoaffinity; Partitioning; Nucleotidylation (David, S. (54) 276)

Microtubule-associated protein 2
Calcium-calmodulin-dependent protein kinase II; Long-term potentiation; Rat; Gene expression (Roberts, L.A. (56) 38)

Microtubule-associated protein (MAP)2
Brain-derived neurotrophic factor; Neurotrophin-3; Basic fibroblast growth factor; Growth-associated protein (GAP)-43 (Kuroda, Y. (59) 35)

Midbrain
LHRH; Seabream-GnRH; Chicken II-GnRH; Salmon-GnRH; Terminal nerve; Nucleus olfactoretinalis; Preoptic area; In situ hybridization (Soga, T. (60) 13)

Mineralocorticoid
11β-Hydroxysteroid dehydrogenase; Glucocorticoid; Development; Cerebellum; Thalamus; Differentiation (Robson, A.C. (61) 1)

Mineralocorticoid receptor
Glucocorticoid receptor; Tree shrew; Hypothalamic–pituitary–adrenal axis; Stress (Meyer, U. (55) 243)

Mitochondria
MnSOD; Superoxide; mRNA; Differential display; Stathmin; Induction (Li, Y. (55) 277)

Amyloid beta-protein; Cytochrome oxidase; Immunohistochemistry; In situ hybridization; Polyadenylated mRNA (Hatanpää, K. (59) 13)

Long-term potentiation; Memory (Williams, J.M. (60) 50)

Mitochondrial respiration
Ischemia; Superoxide dismutase; Glutathione peroxidase; Glutathione reductase; Oxidative damage (Sims, N.R. (60) 141)

Mitochondrion
Sleep; Sleep deprivation; Wakefulness; Cerebral cortex; Fos; Zif/268; Differential PCR display; Rat (Cirelli, C. (56) 293)

Mitogen activated protein kinase
AP-1; Astrocytes; Calcium; CREB; ENKCRE-2; Proenkephalin; Prostaglandin E_2; Protein kinase A; Protein kinase C (Won, J.-S. (60) 203)

Mitosis
Developing brain neuron; Hypoxia; Pre-conditioning; Apoptosis; Bcl-2; PCNA (Bossenmeyer-Pourié, C. (58) 237)

MK-801
NMDA receptor; In situ hybridization; Human brain; Rat brain (Meoni, P. (54) 13)

***Mnd* mice**
Calpain; Calpastatin; In situ hybridization; Hippocampus; Spinal cord (Li, J. (53) 174)

MnSOD
Superoxide; Mitochondria; mRNA; Differential display; Stathmin; Induction (Li, Y. (55) 277)

Modular promoter
Neurofilament; In vitro transcription; Tissue-specific gene expression; Chromatin (Schwartz, M.L. (57) 21)

Molecular cloning
Cytokine receptors; Interleukin-2; Brain; Neurobiology; In situ (Petitto, J.M. (53) 152)

Monoallelic expression
Genomic imprinting; *HTR2A* gene; Neurobehavioral disorder; Pharmacogenetic (Bunzel, R. (59) 90)

Morphine
Tolerance; Protein kinase A; μ-Opioid receptor; Antinociception (Bernstein, M.A. (55) 237)

Knockout; μ-Opioid receptor; Gastrointestinal motility (Roy, S. (56) 281)

Antisense oligodeoxynucleotide; Analgesia; cAMP; G-protein; Immunoblotting; mRNA; Mouse; Opioid potency; RT-PCR; Striatum (Shen, J. (59) 247)

Sensitization; Striatum; c-*fos*; In situ hybridization (Erdtmann-Vourliotis, M. (61) 51)

Knockout; μ-Opioid receptor; T-cells; Macrophage (Roy, S. (61) 190)

Morphine pellet
Arcuate nucleus; β-endorphin; Female guinea pig; In situ hybridization histochemistry; Median eminence (Fang, Y. (55) 1)

Morphine withdrawal
Body weight loss; Plasma corticosterone elevation; Preproenkephalin mRNA; Caudal periaqueductal gray; In situ hybridization; Rat (Fukunaga, Y. (55) 221)

Motor neuron
Glial cell line-derived neurotrophic factor; GDNFR-α; c-*ret*; Receptor tyrosine kinase; Axotomy; In situ hybridization histochemistry (Burazin, T.C.D. (55) 331)

Mouse
Dopamine; Immediate early gene; AP-1; Striatum; FosB (Pérez-Otaño, I. (53) 41)

PDGF; PDGF receptor; MAP kinase; ERK; JNK (Hu, Y. (53) 251)

Phosphorylation; Dephosphorylation; Development; Cell adhesion (McAndrew, P.E. (56) 9)

Calcium current; L-type channel; Trisomy 16; Down syndrome; Na^+/myo-inositol transporter; Hippocampal neuron (Galdzicki, Z. (56) 200)

Antisense oligodeoxynucleotide; Analgesia; cAMP; G-protein; Immunoblotting; Morphine; mRNA; Opioid potency; RT-PCR; Striatum (Shen, J. (59) 247)

Gαi2-protein; Gαo-protein; In situ hybridization; Vomeronasal receptor (Saito, H. (60) 215)

Mouse cerebral cortex
Diazepam binding inhibitor (DBI); Nicotine dependence; Nicotinic acetylcholine receptor (nAChR) (Katsura, M. (55) 345)

MPP^+
A23187; Serum withdrawal; Calcium imaging; Glutamate (McMahon, A. (54) 56)

Dopamine transporter; Cocaine; Mutagenesis (Mitsuhata, C. (56) 84)

mRNA
Neuronal nitric oxide synthase; Hybridization; In situ; Digoxigenin; Rat brain; Hippocampus (Iwase, K. (53) 1)

Gene expression; Cochlea; Hair cells; Spiral ganglion; Nicotinic acetylcholine receptor subunits; In situ hybridization; RT–PCR (Morley, B.J. (53) 78)

GABA transporter; In situ hybridization; Kindling; Hippocampus; Amygdala; Rat (Hirao, T. (54) 49)

Schizophrenia; *N*-methyl-D-aspartate (NMDA); Gene expression; Flupenthixol; Multiprobe oligonucleotide solution hybridization (MOSH); Antipsychotic drugs (Chen, A.C.-H. (54) 92)

Pituitary adenylate cyclase activating polypeptide (PACAP); Vasoactive intestinal peptide (VIP); Receptor; Retina; Inositol phospholipid hydrolysis; cAMP (D'Agata, V. (54) 161)

CP-55,940; Tetrahydrocannabinol; *R*-methanandamide; Proenkephalin; Ventromedial nucleus; Striatum; Periaqueductal grey; Mammillary nucleus (Manzanares, J. (55) 126)

Voltage-dependent calcium channel; Retina; In situ hybridization; Gene expression (Kamphuis, W. (55) 209)

MnSOD; Superoxide; Mitochondria; Differential display; Stathmin; Induction (Li, Y. (55) 277)

Sodium channels; Neuron; Gene expression; cAMP; Calcium; Proenkephalin; Scorpion toxins (Giraud, P. (56) 238)

Electroconvulsive shock; BDNF; Rat brain; Antidepressant; In situ hybridisation (Zetterström, T.S.C. (57) 106)

Striatum; 6-OHDA; Dopamine; Proto-oncogene; Neonate; D1-receptor (Soghomonian, J.-J. (57) 155)

Neurotensin receptor; In situ hybridization; Ependymal cell; Glia; Neuron; Neuroendocrine; Dopaminergic control (Walker, N. (57) 193)

Prolactin receptor; Rat hypothalamus; RT-PCR; Southern hybridization; Microdissection (Pi, X.-J. (59) 1)

Estrogen; Neuronal nitric oxide synthase; Ventromedial hypothalamus; In situ hybridization (Rachman, I.M. (59) 105)

Gene expression; Blood–brain barrier; Brain tumor; Post-transcription (Boado, R.J. (59) 109)

Nurr1; Kainic acid; Seizure; Hippocampus; In situ hybridization (Crispino, M. (59) 178)

Antisense oligodeoxynucleotide; Analgesia; cAMP; G-protein; Immunoblotting; Morphine; Mouse; Opioid potency; RT-PCR; Striatum (Shen, J. (59) 247)

Bovine; Galanin; Gene expression; Luciferase; Promoter; Transgenic mouse (Rökaeus, Å. (60) 150)

Gene expression; Electroconvulsive shock; Glutamate; Seizure (Watkins, C.J. (61) 108)

Rat; Cholinergic; Neurons; Basal forebrain; Nerve growth factor (Pongrac, J.L. (62) 25)

mRNA expression
cGMP; Phosphodiesterase; Cone; Photoreceptor; Signal transduction; cDNA; Polyclonal antibody; Ground squirrel (Von Schantz, M. (54) 327)

POU factor; Trigeminal; Development; Neurotrophin (Wyatt, S. (55) 254)

Enkephalin; In situ hybridization; Substance P; Thalamus (Salin, P. (57) 257)

mRNA 5-HT$_{1A}$ receptor
Human brain; Development; In situ hybridization; Prenatal; Cerebellum; Hippocampus; Raphe nucleus (Del Olmo, E. (60) 123)

mRNA level
GABA$_A$ receptor; Radioligand binding; α_2 Sub-unit; Diet (Mhatre, M.C. (54) 270)

mRNA, regeneration
Cytoskeleton; Goldfish; Intermediate filament protein; Visual pathway (Niloff, M.S. (61) 78)

mRNA stability
Protein kinase C; Hypertension; Translation; Signal transduction (Sherer, T.B. (62) 167)

Müller glia
Bergmann glia; Glutamate receptor; Gene expression (López, T. (58) 40)

Multicatalytic proteinase
PA700; Protease; CAD protein; Human immunodeficiency virus (Nakamura, T. (53) 321)

Multiprobe oligonucleotide solution hybridization (MOSH)
Schizophrenia; *N*-methyl-D-aspartate (NMDA); Gene expression; mRNA; Flupenthixol; Antipsychotic drugs (Chen, A.C.-H. (54) 92)

Muscarinic receptor subtype mRNA
Choline acetyltransferase mRNA; Semi-quantitative RT/PCR; Flinders sensitive rats; Cholinergic hypersensitivity (Greco, M.A. (55) 232)

Mutagenesis
Dopamine transporter; MPP^+; Cocaine (Mitsuhata, C. (56) 84)

Angiotensin; Amino terminus; Ligand binding (Yee, D.K. (57) 325)

Mutant mice
γ-Aminobutyric acid; Receptor regulation; Development; Immunoblotting (Thompson, C.L. (60) 282)

Vestibular compensation; Purkinje cell; Flocculus; Differential display (Kitahara, T. (61) 170)

Mutation scan
GABA$_A$ receptor; Gamma 2 subunit; Alternative splicing; Allelic association; Alcoholism; Taiwanese aborigines (Hsu, Y.-P.P. (56) 284)

Myelin-associated glycoprotein
Myelination; Peripheral nervous system; Schwann cell; Development; Differential expression; Polymorphism; Phosphorylation (Kursula, P. (54) 252)

Myelination
Myelin-associated glycoprotein; Peripheral nervous system; Schwann cell; Development; Differential expression; Polymorphism; Phosphorylation (Kursula, P. (54) 252)

Myoclonus
Purkinje cell; Cerebellar granule cell; In situ hybridization histochemistry; Immunocytochemistry; Ataxia; Ion channel mutation (Lau, F.C. (59) 93)

N

***N*-acetylcysteine**
Nuclear factor-κB; Cerebral infarction; Antioxidant; Endothelial cell adhesion molecule (Carroll, J.E. (56) 186)

Na^+/H^+ exchanger
Amiloride; Blood–brain barrier; Cerebral cortex; Cerebral microvessel; Choroid plexus; Methyl-isobutyl amiloride (Kalaria, R.N. (58) 178)

Na^+/*myo*-inositol cotransporter
Hyperglycemia; Osmolyte; Hypertonicity (Yamashita, T. (57) 167)

Na^+/myo-inositol transporter
Calcium current; L-type channel; Trisomy 16; Down syndrome; Hippocampal neuron; Mouse (Galdzicki, Z. (56) 200)

Nasal cavity
Adenylate kinase; ATP; GTP; Liver; Hippocampus (Yoneda, T. (62) 187)

NAT
C1 adrenaline neuron; Rostral ventrolateral medulla; RVL; Immunohistochemistry; Single-cell RT-PCR (Comer, A.M. (62) 65)

Natriuretic peptide
Inner ear; ANP-A receptor; ANP-B receptor; ANP-C receptor; Polymerase chain reaction (Suzuki, M. (55) 165)

Neonate
Striatum; 6-OHDA; Dopamine; Proto-oncogene; D1-receptor; mRNA (Soghomonian, J.-J. (57) 155)

Nerve growth factor
Angiotensin II; AT_2 receptor; PC12W cell; Neurite extension; Microtubule (Stroth, U. (53) 187)

Neurotrophic factor; Neurotrophin-3; TrkA; TrkC; Bone morphogenetic protein-2 (BMP-2); Retinoic acid (Kobayashi, M. (53) 206)

Fibroblast growth factor-2; Dexamethasone; Glucocorticoid; β-Adrenergic receptor; Hippocampus; Cerebral cortex (Colangelo, A.M. (53) 218)

Promoter; Presenilin; Alzheimer's disease (Pennypacker, K.R. (56) 57)

Amyloid precursor protein; Receptor; Neurotrophic activity (Akar, C.A. (56) 125)

Rat; Cholinergic; Neurons; Basal forebrain; mRNA (Pongrac, J.L. (62) 25)

Nerve injury
Interleukin-6; In situ hybridization; Allodynia; Immune response (Arruda, J.L. (62) 228)

Nerve regeneration
Tyrosine kinase; Growth factor; Ras; ShcB; ShcC (Tanabe, K. (53) 291)

Raf-1; Erk; Ras; Bad; Differential display; Rat (Namikawa, K. (55) 315)

Redox regulation; Oxidative stress; Brain damage (Mansur, K. (62) 86)

Tra2β; RNA splicing; Brain damage (Kiryu-Seo, S. (62) 220)

Nervous system
Interleukin; Cytokine; Neuroimmunology; Hypothalamus; Ventromedial nucleus; Feeding; Food intake; Rat; Intracerebroventricular (Plata-Salamán, C.R. (58) 188)

Neural development
Bovine CRMP-2; Protein kinase; *unc*-33; Chromosome mapping (Kamata, T. (54) 219)

Neural induction
Xenopus; *XCRMP-2* gene (Kamata, T. (57) 201)

Neurite extension
Angiotensin II; AT_2 receptor; PC12W cell; Nerve growth factor; Microtubule (Stroth, U. (53) 187)

Neurite outgrowth
NGF; PC12 cell; TrkA; Autocrine; RT-PCR (Gill, J.S. (57) 123)

Neurite retraction
Lysophosphatidic acid; NG108-15 cell; PC12 cell; F-actin; Neuroprotection (Magazin, M. (53) 301)

Neurobehavioral disorder
Genomic imprinting; *HTR2A* gene; Monoallelic expression; Pharmacogenetic (Bunzel, R. (59) 90)

Neurobiology
Cytokine receptors; Interleukin-2; Brain; Molecular cloning; In situ (Petitto, J.M. (53) 152)

Neuroblastoma
SERCA; Alternative splicing; Pre-mRNA processing; Splice site selection; Neuron (Baba-Aïssa, F. (55) 92)

Neuroblastoma cell
G-Protein-coupled receptor; Protein synthesis; Subcellular fractionation; Radioligand binding; Immunostain (McIntosh, H.H. (53) 163)

Alzheimer's disease; β-Amyloid precursor protein; β-Peptide; Anticholinesterase; Protein transport; Protein processing; THA (Lahiri, D.K. (62) 131)

Neurodegeneration
Cytokine; ED1; Glutamate receptor; In situ hybridization histochemistry; Microglia (Eriksson, C. (58) 195)

Kynurenine; Immune stimulation; Microglia; Macrophage (Barattè, S. (59) 50)

GluR2; Antisense; Knockdown; Hippocampus; Development (Friedman, L.K. (61) 224)

Lurcher mutant mouse; *staggerer* mutant mouse; Cerebellum; Inflammation; Proinflammatory cytokine; IL-1β; ELISA (Vernet-der Garabedian, B. (62) 224)

Neurodegenerative disease
Nitric oxide synthase; Superoxide dismutase; Oxidative stress; Microglia; Alzheimer's disease; Aging; In situ hybridization; Glia (Sugaya, K. (58) 1)

Neuroendocrine
Neurotensin receptor; mRNA; In situ hybridization; Ependymal cell; Glia; Neuron; Dopaminergic control (Walker, N. (57) 193)

Neurofilament
In vitro transcription; Modular promoter; Tissue-specific gene expression; Chromatin (Schwartz, M.L. (57) 21)

Neuroimmunology
Interleukin; Cytokine; Hypothalamus; Ventromedial nucleus; Nervous system; Feeding; Food intake; Rat; Intracerebroventricular (Plata-Salamán, C.R. (58) 188)

Neuroleptics
Caudate-putamen; Peptide expression; Antipsychotics; Dopamine (Zahm, D.S. (59) 196)

Neuromelanin
Brain; β-Galactosidase; Substantia nigra; Transgenic mouse; Tyrosinase (Tief, K. (53) 307)

Neuromuscular junction
Acetylcholine receptor; Development; Synaptogenesis (Yang, J.F. (58) 59)

Neuron
SERCA; Alternative splicing; Pre-mRNA processing; Splice site selection; Neuroblastoma (Baba-Aïssa, F. (55) 92)

Sodium channels; mRNA; Gene expression; cAMP; Calcium; Proenkephalin; Scorpion toxins (Giraud, P. (56) 238)

Neurotensin receptor; mRNA; In situ hybridization; Ependymal cell; Glia; Neuroendocrine; Dopaminergic control (Walker, N. (57) 193)

TNF; 75 kDa TNFR; Cell death (Sipe, K.J. (62) 111)

Neuronal
Nicotinic; Acetylcholine; Phosphorylation; Oocyte; Recombinant (Viseshakul, N. (59) 100)

Neuronal cell culture
Calcium homeostasis; Endoplasmic reticulum; Gadd153 expression; Rat; Thapsigargin; Transient cerebral ischemia (Paschen, W. (60) 115)

Neuronal development
Central nervous system; Subcommissural organ; Reissner's fiber; SCO-spondin expression (Creveaux, I. (55) 45)

Neuronal nitric oxide synthase
mRNA; Hybridization; In situ; Digoxigenin; Rat brain; Hippocampus (Iwase, K. (53) 1)

Estrogen; mRNA; Ventromedial hypothalamus; In situ hybridization (Rachman, I.M. (59) 105)

Neuronal plasticity
5-HT1A receptor; Hippocampus; In situ hybridization; Environmental enrichment (Rasmuson, S. (53) 285)

Traumatic brain injury; Lateral fluid percussion; Neurotrophin receptors; In situ hybridization (Hicks, R.R. (59) 264)

Neuron
Brain; Gene expression; Glia; Rat; Stroke (Lin, T.-N. (55) 71)

IGF; IGFBP; Brain; Rat; Growth factor; Hypoxia–ischemia; Glia (Beilharz, E.J. (59) 119)

Rat; Cholinergic; Basal forebrain; Nerve growth factor; mRNA (Pongrac, J.L. (62) 25)

Neuropeptide
FMRFamide gene family; Developmental expression (Nelson, L.S. (58) 103)

In situ hybridization; NPY; POMC; Gene expression; Obesity (Guan, X.-M. (59) 273)

Neuropeptide Y
Y_5 receptor mRNA; In situ hybridization; Human brain; Food intake (Jacques, D. (61) 100)

Neuropeptide Y receptor
In situ hybridization; Genetic rat model; Depression; Flinders sensitive line rats; Fluoxetine (Caberlotto, L. (59) 58)

Neuroprotection
Neurite retraction; Lysophosphatidic acid; NG108-15 cell; PC12 cell; F-actin (Magazin, M. (53) 301)

Brain infarction; Apoptosis; Permanent focal ischemia; Neurotrophin; Transgenic mouse (Guégan, C. (55) 133)

Fibroblast growth factor; Gene expression; Glucocorticoid; Noradrenergic system; Glia (Riva, M.A. (57) 38)

Transforming growth factor-β; Apoptosis; Bcl-2 family (Kim, E.S. (62) 122)

Neurotensin
Antipsychotic; Schizophrenia; c-*fos*; Dopamine; D2 receptor (Meng, Z.-h. (61) 39)

Neurotensin receptor
mRNA; In situ hybridization; Ependymal cell; Glia; Neuron; Neuroendocrine; Dopaminergic control (Walker, N. (57) 193)

Neurotoxicity
Alcohol; Ethanol; Extrapyramidal system; HMW MAP2; Northern; Dot blot hybridization; In situ hybridization; Withdrawal (Putzke, J. (62) 196)

Neurotransmitter release
Cerebellar granule cells; Herpes simplex virus; Glutamic acid decarboxylase; GABA; Virus vector (New, K.C. (61) 121)

Neurotrophic action
Lipocortin; Annexin; Astrocyte (Mizuno, H. (60) 28)

Neurotrophic activity
Amyloid precursor protein; Nerve growth factor; Receptor (Akar, C.A. (56) 125)

Neurotrophic factor
Nerve growth factor; Neurotrophin-3; TrkA; TrkC; Bone morphogenetic protein-2 (BMP-2); Retinoic acid (Kobayashi, M. (53) 206)

Neurotrophin
Rat; trk B; trk C; Fos; Epilepsy (Hughes, P.E. (53) 138)

Neurotrophin-3
Neurotrophic factor; Nerve growth factor; TrkA; TrkC; Bone morphogenetic protein-2 (BMP-2); Retinoic acid (Kobayashi, M. (53) 206)

Neurotrophin
Brain infarction; Apoptosis; Permanent focal ischemia; Neuroprotection; Transgenic mouse (Guégan, C. (55) 133)

POU factor; Trigeminal; Development; mRNA expression (Wyatt, S. (55) 254)

Neurotrophin-3
Brain-derived neurotrophic factor; Basic fibroblast growth factor; Growth-associated protein (GAP)-43; Microtubule-associated protein (MAP)2 (Kuroda, Y. (59) 35)

Transgenic mouse; Reporter gene; Promoter; Gene expression (Kaisho, Y. (59) 114)

Neurotrophin
Trigeminal neuron; trk Receptor; Injury; Dental pulp; Nociception; Retrograde transport (Wheeler, E.F. (61) 23)

Neurotrophin receptors
Traumatic brain injury; Lateral fluid percussion; In situ hybridization; Neuronal plasticity (Hicks, R.R. (59) 264)

Newborn
c-*fos*; c-*jun*; Cell death; Apoptosis; Hypoxia–ischemia; Glucocorticoid; Rat (Macaya, A. (56) 29)

Fetus; Adult; Development; Brain; EP (Tai, T.-C. (57) 161)

NFκB
Oxidative stress; Phosphoinositide hydrolysis; AP-1; Glutathione; Diamide (Li, X. (53) 196)

NF-κB
Alzheimer's disease; β-amyloid protein; IκB-α; Glia activation (Bales, K.R. (57) 63)

Alzheimer's disease; Beta-amyloid precursor protein; Gene regulation; βAPP promoter; Gel shift assay; Transcription factor (Lahiri, D.K. (58) 112)

Amyloid precursor protein; Promoter; Rat hippocampal neuron; Oxidative stress (Yang, Y. (60) 40)

Transcription factor; Methamphetamine; Superoxide dismutase; Transgenic mice; Reactive oxygen species (Asanuma, M. (60) 305)

Cell death; c-Jun; c-Fos; DNA fragmentation; Cell free system (Solovyan, V. (62) 43)

NF-Y
Gene regulation; Dopamine; DOPA decarboxylase; Drifter; Sp1 (Raynal, J.-F. (56) 227)

NG-108-15 cell
Calreticulin; Apoptosis; Calcium; Antisense; Differentiation (Johnson, R.J. (53) 104)

NG108-15 cell
Neurite retraction; Lysophosphatidic acid; PC12 cell; F-actin; Neuroprotection (Magazin, M. (53) 301)

NGF
Dual-specificity phosphatases; TrkA; Development; Peripheral ganglia (Peinado-Ramón, P. (56) 256)

TrkA; p75NTR; Glioblastoma multiforme (Rabin, S.J. (56) 273)

PC12 cell; TrkA; Neurite outgrowth; Autocrine; RT-PCR (Gill, J.S. (57) 123)

BDNF; Northern blot; In situ hybridization; Western blot; Immunocytochemistry; Cell culture; Vaccinia virus infection (Marcinkiewicz, M. (59) 229)

NGFI-A
Vasopressin; *zif/268*; ZENK; Immediate early response gene; Hippocampus; Glial cell; Astrocyte; Learning and memory (Diaz Brinton, R. (57) 73)

NGFI-A
Glucocorticoid receptor; Antidepressant; Hippocampus; Transcription factor (Johansson, I.-M. (62) 92)

Nicotine dependence
Diazepam binding inhibitor (DBI); Mouse cerebral cortex; Nicotinic acetylcholine receptor (nAChR) (Katsura, M. (55) 345)

Nicotinic
Acetylcholine; Phosphorylation; Oocyte; Recombinant; Neuronal (Viseshakul, N. (59) 100)

Nicotinic acetylcholine receptor subunits
mRNA; Gene expression; Cochlea; Hair cells; Spiral ganglion; In situ hybridization; RT–PCR (Morley, B.J. (53) 78)

Nicotinic acetylcholine receptor (nAChR)
Diazepam binding inhibitor (DBI); Mouse cerebral cortex; Nicotine dependence (Katsura, M. (55) 345)

Nicotinic acetylcholine receptor
Arachidonic acid; Site-directed mutagenesis; Protein kinase C; Phosphorylation; Voltage-clamp; *Xenopus* oocyte (Nishizaki, T. (57) 173)

α4 Subunit; Human fetal brain; In situ hybridization; Anatomical localization; Fragile X syndrome (Agulhon, C. (58) 123)

Single-channel recording; Protein kinase C; Site-directed mutagenesis; *Xenopus* oocyte (Nishizaki, T. (61) 211)

Nitric oxide
Voltage-dependent Ca^{2+} channel; Ca^{2+} influx; Cyclic GMP; Cerebral cortical neuron (Ohkuma, S. (54) 133)

Hippocampal synaptosomes; γ-Aminobutyric acid; NNC-711; Exocytotic release; Carrier-mediated release (Sequeira, S.M. (55) 337)

Kainic acid; Proenkephalin; Prodynorphin; Proto-oncogene; Hippocampus (Won, J.-S. (56) 76)

Stress; Interleukin-1β; Corticotropin-releasing factor; Hypothalamus (Lee, S. (57) 54)

NMDA; GnRH; GT1-1 cell; Fos; Jun (Jung, N. (61) 162)

Nitric oxide synthase
Superoxide dismutase; Oxidative stress; Microglia; Alzheimer's disease; Aging; In situ hybridization; Neurodegenerative disease; Glia (Sugaya, K. (58) 1)

NMDA
In situ hybridization; AMPA (Kohama, S.G. (53) 328)

Microglia; Chemokine; Excitotoxicity; Hippocampus; Brain injury (Szaflarski, J. (55) 306)

Immediate early gene; Glutamate; Dopamine; ACPD; MCPG; SCH-23390; CPP (Wang, J.Q. (57) 46)

Dopamine receptor; Striatum; *zif 268*; *jun B*; Immediate early gene (Leslie, C.A. (59) 40)

GnRH; GT1-1 cell; Nitric oxide; Fos; Jun (Jung, N. (61) 162)

***N*-methyl-D-aspartate (NMDA)**
Schizophrenia; Gene expression; mRNA; Flupenthixol; Multiprobe oligonucleotide solution hybridization (MOSH); Antipsychotic drugs (Chen, A.C.-H. (54) 92)

NMDA receptor
MK-801; In situ hybridization; Human brain; Rat brain (Meoni, P. (54) 13)

Synaptic plasticity; Brain-derived neurotrophic factor; Postsynaptic; trkB (Lin, S.-Y. (55) 20)

HEK293 cell; Desensitization; Inactivation; Patch clamp; Recombinant receptor; Hippocampal cell (Kendrick, S.J. (57) 10)

Synaptic plasticity; Phosphorylation; Postsynaptic (Suen, P.-c. (59) 215)

Long-term potentiation; Memory (Williams, J.M. (60) 21)

Kindling; Epilepsy; Subunit composition; Immunoblot; Plasticity (Kraus, J.E. (61) 114)

NMDA receptor subunit
Chronic ethanol treatment; Up-regulation (Kalluri, H.S.G. (58) 221)

NNC-711
Hippocampal synaptosomes; Nitric oxide; γ-Aminobutyric acid; Exocytotic release; Carrier-mediated release (Sequeira, S.M. (55) 337)

Nociception
Cyclic AMP response element binding protein; CREB phosphorylation; c-Jun; Fos; Fra; Dynorphin (Messersmith, D.J. (53) 259)

Trigeminal neuron; Neurotrophin; trk Receptor; Injury; Dental pulp; Retrograde transport (Wheeler, E.F. (61) 23)

Noradrenergic system
Fibroblast growth factor; Gene expression; Glucocorticoid; Neuroprotection; Glia (Riva, M.A. (57) 38)

Norepinephrine transporter
REM sleep deprivation; Tyrosine hydroxylase; In situ hybridization; Locus coeruleus (Basheer, R. (57) 235)

Northern
Alcohol; Ethanol; Extrapyramidal system; HMW MAP2; Dot blot hybridization; In situ hybridization; Neurotoxicity; Withdrawal (Putzke, J. (62) 196)

Northern blot
NGF; BDNF; In situ hybridization; Western blot; Immunocytochemistry; Cell culture; Vaccinia virus infection (Marcinkiewicz, M. (59) 229)

NPY
Receptor; Species; Message distribution (Burkhoff, A.M. (53) 311)

In situ hybridization; POMC; Gene expression; Obesity; Neuropeptide (Guan, X.-M. (59) 273)

NPY receptor subtype
G-protein coupling; Rat brain; Autoradiography; GTPγ[^{35}S] (Primus, R.J. (58) 74)

p75NTR
TrkA; NGF; Glioblastoma multiforme (Rabin, S.J. (56) 273)

Nuclear factor-κB
Cerebral infarction; *N*-acetylcysteine; Antioxidant; Endothelial cell adhesion molecule (Carroll, J.E. (56) 186)

Nucleotides
Metabotropic glutamate receptors; L-2-Amino-4-phosphonobutyrate; L-Glutamate; Cyclic AMP; Cloning; Complementary DNA (Wu, S. (53) 88)

Nucleotidylation
Alzheimer's; Creatine kinase; Microtubule; Activity; Photoaffinity; Partitioning (David, S. (54) 276)

Nucleus accumbens
Drugs of abuse; Opioid; Rostral pole; Shell; Core (Mathieu-Kia, A.-M. (54) 141)

Serotonin; 5-HT_{2A} receptor; Frontal, cingulate and piriform cortex; Caudate-putamen; Aromatase (Sumner, B.E.H. (59) 205)

Haloperidol; Synaptobrevin; Synaptotagmin; Syntaxin; Rab 3A (Nakahara, T. (61) 238)

Behavioral sensitization; Striatum; Mesencephalon; RNase protection assay; Dopamine (Michelhaugh, S.K. (62) 35)

Nucleus olfactoretinalis
LHRH; Seabream-GnRH; Chicken II-GnRH; Salmon-GnRH; Terminal nerve; Preoptic area; Midbrain; In situ hybridization (Soga, T. (60) 13)

Nurr1
mRNA; Kainic acid; Seizure; Hippocampus; In situ hybridization (Crispino, M. (59) 178)

O

Obesity
In situ hybridization; NPY; POMC; Gene expression; Neuropeptide (Guan, X.-M. (59) 273)

Octreotide
Microglia; Somatostatin receptor; Proliferation; Phosphorylation (Feindt, J. (60) 228)

6-OHDA
Striatum; Dopamine; Proto-oncogene; Neonate; D1-receptor; mRNA (Soghomonian, J.-J. (57) 155)

6-OHDA lesion
Striatum; Decortication; Metabotropic receptor (Friberg, I.K. (54) 298)

Olfactomedin
Cortex; Differential display; Glycoprotein; Rough endoplasmic reticulum (rER) (Nagano, T. (53) 13)

Olfactory bulb
In situ hybridization; Limbic system; Striatum; Tachykinin receptor (Pesini, P. (57) 281)

Olfactory tubercle
Tachykinin; Preprotachykinin-A gene; Sardinian alcohol-preferring rat; Sardinian alcohol-nonpreferring rat; Bed nucleus stria terminalis (Pompei, P. (56) 277)

Oligodendrocyte
Astrocyte; RT-PCR; Immunohistochemistry (García-Barcina, J.M. (53) 270)

κ-opioid receptor; Astrocytes; Microglia; Growth factors; Cyclic AMP (Tryoen-Toth, P. (55) 141)

Oligonucleotide
Rat brain; CGRP; In situ hybridisation; Adrenomedullin (Oliver, K.R. (57) 149)

Olivocochlear
Synaptogenesis; Efferent; Hybridization, in situ; Organ of Corti (Simmons, D.D. (56) 287)

Oocyte
Nicotinic; Acetylcholine; Phosphorylation; Recombinant; Neuronal (Viseshakul, N. (59) 100)

Opiate neuropeptides
Developmental toxicity; Dopaminoceptive neurons; Limbic system; Functional marker; Drugs of abuse; Long-term cocaine effects (Dow-Edwards, D.L. (62) 82)

κ-opioid receptor
Astrocytes; Oligodendrocytes; Microglia; Growth factors; Cyclic AMP (Tryoen-Toth, P. (55) 141)

Opioid
Drugs of abuse; Nucleus accumbens; Rostral pole; Shell; Core (Mathieu-Kia, A.-M. (54) 141)

Estrogen; Enkephalin; Preoptic AREA; Hypothalamus; Sex difference (Segarra, A.C. (60) 133)

Opioid gene
Antisense oligonucleotide; c-*fos*; Dentate gyrus; Kainic acid; Seizure; Transcription factor; Regulation of gene expression (Ziółkowska, B. (54) 243)

Opioid potency
Antisense oligodeoxynucleotide; Analgesia; cAMP; G-protein; Immunoblotting; Morphine; mRNA; Mouse; RT-PCR; Striatum (Shen, J. (59) 247)

μ-Opioid receptor
Morphine; Tolerance; Protein kinase A; Antinociception (Bernstein, M.A. (55) 237)

Knockout; Morphine; Gastrointestinal motility (Roy, S. (56) 281)

Knockout; Morphine; T-cells; Macrophage (Roy, S. (61) 190)

Organ of Corti
Synaptogenesis; Efferent; Olivocochlear; Hybridization, in situ (Simmons, D.D. (56) 287)

ORP150
Brain ischemia; Degenerating neuron; Ischemic core; Stress protein; Chaperon (Matsushita, K. (60) 98)

Orphan receptor
G protein-coupled receptor; Substantia nigra; Corpus callosum (Donohue, P.J. (54) 152)

Osmolyte
Hyperglycemia; Hypertonicity; Na^+/*myo*-inositol cotransporter (Yamashita, T. (57) 167)

Osmotic minipump
Electrophysiology; Immunocytochemistry; Inner ear; Guinea pig (D'Aldin, C. (55) 151)

Oxidative damage
Ischemia; Superoxide dismutase; Glutathione peroxidase; Glutathione reductase; Mitochondrial respiration (Sims, N.R. (60) 141)

Oxidative stress
Phosphoinositide hydrolysis; AP-1; NFκB; Glutathione; Diamide (Li, X. (53) 196)

Nitric oxide synthase; Superoxide dismutase; Microglia; Alzheimer's disease; Aging; In situ hybridization; Neurodegenerative disease; Glia (Sugaya, K. (58) 1)

c-*fos* mRNA; Methamphetamine; *Zif268* mRNA; Egr-1 (Hirata, H. (58) 209)

Amyloid precursor protein; Promoter; Rat hippocampal neuron; NF-κB (Yang, Y. (60) 40)

Glutamate; Pheochromocytoma; *bcl-2*; Thiol; *cis*-parinaric acid (Tyurin, V.A. (60) 270)

Nerve regeneration; Redox regulation; Brain damage (Mansur, K. (62) 86)

Oxytocin receptor
Promoter; Transfection; SK-N-SH; MCF7; Phorbol 12-myristate 13-acetate; Forskolin (Bale, T.L. (53) 130)

P

PA700
Protease; Multicatalytic proteinase; CAD protein; Human immunodeficiency virus (Nakamura, T. (53) 321)

Paired box gene
PAX-6; Alternative promoter; Gene transcription; Brain; Human (Okladnova, O. (60) 177)

Pancreatic polypeptide
Circadian rhythms; Phase shifts; Geniculo-hypothalamic pathway (Larsen, P.J. (60) 69)

Parasympathectomy
Cysteine proteinase inhibitor; Cystatin S; Submandibular gland; Isoproterenol; Denervation (Chaparro, O. (61) 136)

Paraventricular nucleus
c-*fos*; Corticotropin-releasing factor; Cycloheximide; Hypothalamus; Transcription factors; Vasopressin (Kovács, K.J. (54) 85)

Suprachiasmatic nucleus; Supraoptic nucleus; Vasopressin; Vasoactive intestinal peptide; Somatostatin (Duncan, M.J. (57) 142)

Partitioning
Alzheimer's; Creatine kinase; Microtubule; Activity; Photoaffinity; Nucleotidylation (David, S. (54) 276)

Parvalbumin
Dopamine receptor; Gene expression; Cortical interneuron; Calbindin (Le Moine, C. (58) 231)

Patch clamp
HEK293 cell; NMDA receptor; Desensitization; Inactivation; Recombinant receptor; Hippocampal cell (Kendrick, S.J. (57) 10)

Patch-clamp-technique
Anesthetic mechanisms; Intravenous anesthetic; Etomidate; Propofol; Ketamine; Whole cell; Potassium; Extracellular concentration; Potassium current; Human neuronal (Friederich, P. (60) 301)

PAX-6
Paired box gene; Alternative promoter; Gene transcription; Brain; Human (Okladnova, O. (60) 177)

PC12 cell
Neurite retraction; Lysophosphatidic acid; NG108-15 cell; F-actin; Neuroprotection (Magazin, M. (53) 301)

FGF-2 isoform; Transfection; Differentiation; In vitro; Rat cell line; Schwann cell (Grothe, C. (57) 97)

NGF; TrkA; Neurite outgrowth; Autocrine; RT-PCR (Gill, J.S. (57) 123)

Protein tyrosine phosphatase; Leukocyte common antigen related gene; LAR; Proximal membrane; Cell adhesion molecule (Honkaniemi, J. (60) 1)

PCNA
Developing brain neuron; Hypoxia; Pre-conditioning; Apoptosis; Mitosis; Bcl-2 (Bossenmeyer-Pourié, C. (58) 237)

PCPTP1
PCPTP1-Ce; cDNA; Protein tyrosine phosphatase; Purkinje cell; Cerebellum; In situ hybridization; Immunohistochemistry (Watanabe, Y. (58) 83)

PCPTP1-Ce
PCPTP1; cDNA; Protein tyrosine phosphatase; Purkinje cell; Cerebellum; In situ hybridization; Immunohistochemistry (Watanabe, Y. (58) 83)

PCR
K^+ channel; Voltage-gated; Evolution; Electric fish (Rashid, A.J. (54) 101)

PCR differential display
Subtraction; Gene regulation; Amphetamine; Drug abuse (Wang, X.B. (53) 344)

PC12W cell
Angiotensin II; AT_2 receptor; Nerve growth factor; Neurite extension; Microtubule (Stroth, U. (53) 187)

PDGF
PDGF receptor; MAP kinase; ERK; JNK; Mouse (Hu, Y. (53) 251)

PDGF receptor
PDGF; MAP kinase; ERK; JNK; Mouse (Hu, Y. (53) 251)

Peptide
Purification; Cloning; IQ motif; Calmodulin; MBF1 (Smith, M.L. (62) 12)

β-Peptide
Alzheimer's disease; β-Amyloid precursor protein; Anticholinesterase; Neuroblastoma cell; Protein transport; Protein processing; THA (Lahiri, D.K. (62) 131)

Peptide expression
Caudate-putamen; Antipsychotics; Neuroleptics; Dopamine (Zahm, D.S. (59) 196)

Periaqueductal grey
CP-55,940; Tetrahydrocannabinol; *R*-methanandamide; Proenkephalin; mRNA; Ventromedial nucleus; Striatum; Mammillary nucleus (Manzanares, J. (55) 126)

Peripheral ganglia
Dual-specificity phosphatases; NGF; TrkA; Development (Peinado-Ramón, P. (56) 256)

Peripheral nervous system
Myelin-associated glycoprotein; Myelination; Schwann cell; Development; Differential expression; Polymorphism; Phosphorylation (Kursula, P. (54) 252)

Permanent focal ischemia
Brain infarction; Apoptosis; Neurotrophin; Neuroprotection; Transgenic mouse (Guégan, C. (55) 133)

Peroxynitrite
Hydroxyl radical; GABA release; Cerebral cortical neurons (Higo, A. (62) 96)

PGHS-2
Proinflammatory mediators; Inflammation; Glial cells; Type II NOS; COX-2 (Liu, Y. (59) 189)

Pharmacogenetic
Genomic imprinting; *HTR2A* gene; Monoallelic expression; Neurobehavioral disorder (Bunzel, R. (59) 90)

Phase shifts
Circadian rhythms; Pancreatic polypeptide; Geniculo-hypothalamic pathway (Larsen, P.J. (60) 69)

Phenylethanolamine *N*-methyltransferase gene
Synergistic activation by Egr-1, AP-2 and glucocorticoid receptor (Wong, D.L. (61) 154)

Pheochromocytoma
Glutamate; Oxidative stress; *bcl-2*; Thiol; *cis*-parinaric acid (Tyurin, V.A. (60) 270)

Phorbol 12-myristate 13-acetate
Oxytocin receptor; Promoter; Transfection; SK-N-SH; MCF7; Forskolin (Bale, T.L. (53) 130)

Phorbol-12-myristate-13-acetate
CREB; Cultured rat astrocyte; Proenkephalin; Proto-oncogene (Won, J.-S. (54) 288)

Phosphodiesterase
cGMP; Cone; Photoreceptor; Signal transduction; cDNA; Polyclonal antibody; mRNA expression; Ground squirrel (Von Schantz, M. (54) 327)

Phosphoinositide hydrolysis
Oxidative stress; AP-1; NFκB; Glutathione; Diamide (Li, X. (53) 196)

Phospholipase C
Lysophosphatidic acid; Araguspongine E/xestospongin C; Inositol trisphosphate receptor; Signal transduction; *Xenopus* oocyte (Kakizawa, K. (61) 232)

Phospholipase Cγ1
β-Amyloid precursor protein; GAP-43; Inositol 1,4,5-trisphosphate; MARCKS; Protein kinase C; Signal transduction (Ishiguro, M. (53) 24)

Phospholipid synthesis
c-*fos*; Immediate early gene; Sensorial stimulation; Retina ganglion cell; Photoreceptor cell; Light stimulation (Bussolino, D.F. (58) 10)

Phosphorothioates
Antisense oligonucleotides; Corticotropin releasing factor type-2 receptor; Ribonuclease H (Peng Ho, S. (62) 1)

Phosphorylation
Myelin-associated glycoprotein; Myelination; Peripheral nervous system; Schwann cell; Development; Differential expression; Polymorphism (Kursula, P. (54) 252)

Dephosphorylation; Development; Cell adhesion; Mouse (McAndrew, P.E. (56) 9)

Arachidonic acid; Nicotinic acetylcholine receptor; Site-directed mutagenesis; Protein kinase C; Voltage-clamp; *Xenopus* oocyte (Nishizaki, T. (57) 173)

mGluR6; CREB; Light; Retina; c-*fos* (Yoshida, K. (57) 241)

Nicotinic; Acetylcholine; Oocyte; Recombinant; Neuronal (Viseshakul, N. (59) 100)

Synaptic plasticity; NMDA receptor; Postsynaptic (Suen, P.-c. (59) 215)

Basic helix–loop–helix protein; Immunohistochemistry (Kume, H. (60) 107)

Microglia; Somatostatin receptor; Octreotide; Proliferation (Feindt, J. (60) 228)

Photoaffinity
Alzheimer's; Creatine kinase; Microtubule; Activity; Partitioning; Nucleotidylation (David, S. (54) 276)

Photoreceptor
cGMP; Phosphodiesterase; Cone; Signal transduction; cDNA; Polyclonal antibody; mRNA expression; Ground squirrel (Von Schantz, M. (54) 327)

Photoreceptor cell
c-*fos*; Phospholipid synthesis; Immediate early gene; Sensorial stimulation; Retina ganglion cell; Light stimulation (Bussolino, D.F. (58) 10)

Tryptophan hydroxylase; Retina; Pineal gland; Melatonin; Circadian clock (Chong, N.W. (61) 243)

Pineal gland
Brain; Angiotensinogen; Angiotensin II receptor; Renin; ACE; Renin–angiotensin system (Baltatu, O. (54) 237)

Tryptophan hydroxylase; Retina; Melatonin; Circadian clock; Photoreceptor cells (Chong, N.W. (61) 243)

Pituitary
Estrogen; Fos; Jun; Hypothalamus; Protein–DNA interaction (Zhu, Y.-S. (55) 115)

Pituitary adenylate cyclase activating polypeptide (PACAP)
Vasoactive intestinal peptide (VIP); Receptor; Retina; mRNA; Inositol phospholipid hydrolysis; cAMP (D'Agata, V. (54) 161)

Pituitary adenylate cyclase activating polypeptide
Cerebral ischemia; Programmed cell death; *Zac1* (Gillardon, F. (61) 207)

PKC
Lithium; Gene expression; AP-1; GSK-3; Manic depressive (Yuan, P.-X. (58) 225)

PKN
Messenger RNA; In situ hybridization histochemistry; Hippocampus; Cerebellum (Hashimoto, T. (59) 143)

Planar lipid bilayer
Human brain; Sodium channel; Batrachotoxin; Voltage-clamp (Frenkel, C. (59) 22)

Plasma corticosterone elevation
Morphine withdrawal; Body weight loss; Preproenkephalin mRNA; Caudal periaqueductal gray; In situ hybridization; Rat (Fukunaga, Y. (55) 221)

Plasticity
Kindling; Epilepsy; NMDA receptor; Subunit composition; Immunoblot (Kraus, J.E. (61) 114)

Point mutation
Serotonin receptor; Alcoholism; Single-stranded conformational polymorphism (SSCP); Polymorphism; Genetic variation; Amino acid substitution (Iwata, N. (58) 217)

Polyadenylated mRNA
Amyloid beta-protein; Cytochrome oxidase; Immunohistochemistry; In situ hybridization; Mitochondria (Hatanpää, K. (59) 13)

Polyclonal antibody
SP receptor mRNA; Tissue RT–PCR; Single cell RT–PCR; SP receptor protein; Double labeling; SNc DA neurons (Futami, T. (54) 183)

cGMP; Phosphodiesterase; Cone; Photoreceptor; Signal transduction; cDNA; mRNA expression; Ground squirrel (Von Schantz, M. (54) 327)

Polymerase chain reaction
G-protein-linked receptor; Southern blot (Liu, I.S.C. (53) 98)

Inner ear; Natriuretic peptide; ANP-A receptor; ANP-B receptor; ANP-C receptor (Suzuki, M. (55) 165)

Polymorphism
Myelin-associated glycoprotein; Myelination; Peripheral nervous system; Schwann cell; Development; Differential expression; Phosphorylation (Kursula, P. (54) 252)

Serotonin receptor; Alcoholism; Single-stranded conformational polymorphism (SSCP); Genetic variation; Point mutation; Amino acid substitution (Iwata, N. (58) 217)

POMC
In situ hybridization; NPY; Gene expression; Obesity; Neuropeptide (Guan, X.-M. (59) 273)

Postmortem human tissue
Calcium-binding proteins; Calretinin mRNA; Human thalamus; In situ hybridization technique; Sensorimotor integration (Cicchetti, F. (54) 1)

Postnatal
Suprachiasmatic nuclei; Development; Melatonin receptor; In situ hybridization; Syrian hamster (Gauer, F. (60) 193)

Postsynaptic
Synaptic plasticity; Brain-derived neurotrophic factor; NMDA receptor; trkB (Lin, S.-Y. (55) 20)

Synaptic plasticity; Phosphorylation; NMDA receptor (Suen, P.-c. (59) 215)

Post-transcription
Gene expression; Blood–brain barrier; Brain tumor; mRNA (Boado, R.J. (59) 109)

Potassium
Anesthetic mechanisms; Intravenous anesthetic; Etomidate; Propofol; Ketamine; Patch-clamp-technique; Whole cell; Extracellular concentration; Potassium current; Human neuronal (Friederich, P. (60) 301)

Potassium current
Anesthetic mechanisms; Intravenous anesthetic; Etomidate; Propofol; Ketamine; Patch-clamp-technique; Whole cell; Potassium; Extracellular concentration; Human neuronal (Friederich, P. (60) 301)

POU factor
Trigeminal; Development; mRNA expression; Neurotrophin (Wyatt, S. (55) 254)

ppSom mRNA
Somatostatin; Gene expression; Cerebral cortex; Cyclic-AMP (Capone, G. (60) 247)

Pre-conditioning
Developing brain neuron; Hypoxia; Apoptosis; Mitosis; Bcl-2; PCNA (Bossenmeyer-Pourié, C. (58) 237)

Pre-mRNA processing
SERCA; Alternative splicing; Splice site selection; Neuroblastoma; Neuron (Baba-Aïssa, F. (55) 92)

Prenatal
mRNA 5-HT_{1A} receptor; Human brain; Development; In situ hybridization; Cerebellum; Hippocampus; Raphe nucleus (Del Olmo, E. (60) 123)

Preoptic area
Gonadotropin-releasing hormone; Gonadotropin-releasing hormone receptor; Estrogen; Progesterone; Gene expression; Antisense oligonucleotide; Mediobasal hypothalamus; Rat (Seong, J.Y. (53) 226)

LHRH; Seabream-GnRH; Chicken II-GnRH; Salmon-GnRH; Terminal nerve; Nucleus olfactoretinalis; Midbrain; In situ hybridization (Soga, T. (60) 13)

Estrogen; Enkephalin; Hypothalamus; Sex difference; Opioid (Segarra, A.C. (60) 133)

Preproenkephalin mRNA
Morphine withdrawal; Body weight loss; Plasma corticosterone elevation; Caudal periaqueductal gray; In situ hybridization; Rat (Fukunaga, Y. (55) 221)

Preprotachykinin-A gene
Tachykinin; Sardinian alcohol-preferring rat; Sardinian alcohol-nonpreferring rat; Bed nucleus stria terminalis; Olfactory tubercle (Pompei, P. (56) 277)

Presenilin-1
Alzheimer's disease; Brain ischemia; In situ hybridization (Tanimukai, H. (54) 212)

Presenilin
Promoter; Nerve growth factor; Alzheimer's disease (Pennypacker, K.R. (56) 57)

Presenilin-1
Alzheimer's disease; *APP717*; Amyloid deposition; Insoluble (Mori, H. (56) 178)

Presynaptic ultrastructure
Actin assembly; Depolarization; Vesicle recycling; Cultured neurons; FM1-43 (Bernstein, B.W. (53) 236)

Primary culture
Hippocampal neuron; Calpain; Spectrin; Excitotoxicity; Imaging; Calcium (Adamec, E. (54) 35)

Primate
Estrogen; Progesterone; Dorsal raphe; Serotonin; SERT (Pecins-Thompson, M. (53) 120)

Prodynorphin
Kainic acid; Nitric oxide; Proenkephalin; Proto-oncogene; Hippocampus (Won, J.-S. (56) 76)

Heart; Development; Enkephalin; Proopiomelanocortin (McLaughlin, P.J. (60) 160)

Proenkephalin
CREB; Cultured rat astrocyte; Phorbol-12-myristate-13-acetate; Proto-oncogene (Won, J.-S. (54) 288)

CP-55,940; Tetrahydrocannabinol; *R*-methanandamide; mRNA; Ventromedial nucleus; Striatum; Periaqueductal grey; Mammillary nucleus (Manzanares, J. (55) 126)

Kainic acid; Nitric oxide; Prodynorphin; Proto-oncogene; Hippocampus (Won, J.-S. (56) 76)

D_2 dopamine receptor; Cocaine withdrawal; Striatum; Rat (Svensson, P. (56) 162)

Sodium channels; mRNA; Neuron; Gene expression; cAMP; Calcium; Scorpion toxins (Giraud, P. (56) 238)

AP-1; Astrocytes; Calcium; CREB; ENKCRE-2; Mitogen activated protein kinase; Prostaglandin E_2; Protein kinase A; Protein kinase C (Won, J.-S. (60) 203)

Progesterone
Estrogen; Dorsal raphe; Serotonin; SERT; Primate (Pecins-Thompson, M. (53) 120)

Gonadotropin-releasing hormone; Gonadotropin-releasing hormone receptor; Estrogen; Gene expression; Antisense oligonucleotide; Preoptic area; Mediobasal hypothalamus; Rat (Seong, J.Y. (53) 226)

Vesicular monoamine transporter; Estradiol; [^{3}H]dihydrotetrabenazine; Serotonin; Dopamine (Rehavi, M. (57) 31)

Programmed cell death
Apoptosis; Bax; Bcl-2; Kindling; Epilepsy; Hippocampus (Zhang, L.-X. (55) 198)

Alzheimer's disease; Apoptosis; Amyloid precursor protein; Amyloid precursor-like protein 2 (Araki, W. (56) 169)

Cerebral ischemia; *Zac1*; Pituitary adenylate cyclase activating polypeptide (Gillardon, F. (61) 207)

Proinflammatory cytokine
Lurcher mutant mouse; *staggerer* mutant mouse; Neurodegeneration; Cerebellum; Inflammation; IL-1β; ELISA (Vernet-der Garabedian, B. (62) 224)

Proinflammatory mediators
Inflammation; Glial cells; Type II NOS; COX-2; PGHS-2 (Liu, Y. (59) 189)

Prolactin
Immediate early gene; Autofeedback; Hypothalamus (Sagrillo, C.A. (61) 62)

Prolactin receptor
mRNA; Rat hypothalamus; RT-PCR; Southern hybridization; Microdissection (Pi, X.-J. (59) 1)

Proliferating cell nuclear antigen (PCNA)
Global cerebral ischemia; Hypothermia; Ref-1; DNA repair (Tomasevic, G. (60) 168)

Proliferation
Astrocytic differentiation; Protein kinase C (PKC); GFAP; Glutamine synthetase (Brodie, C. (56) 108)

Microglia; Somatostatin receptor; Octreotide; Phosphorylation (Feindt, J. (60) 228)

Promoter
Oxytocin receptor; Transfection; SK-N-SH; MCF7; Phorbol 12-myristate 13-acetate; Forskolin (Bale, T.L. (53) 130)

Prostaglandin D2 synthase/β-trace; Thyroid hormone; Gene regulation (García-Fernández, L.F. (55) 321)

Presenilin; Nerve growth factor; Alzheimer's disease (Pennypacker, K.R. (56) 57)

Neurotrophin-3; Transgenic mouse; Reporter gene; Gene expression (Kaisho, Y. (59) 114)

Amyloid precursor protein; Rat hippocampal neuron; Oxidative stress; NF-κB (Yang, Y. (60) 40)

Bovine; Galanin; Gene expression; Luciferase; mRNA; Transgenic mouse (Rökaeus, Å. (60) 150)

Proopiomelanocortin
Heart; Development; Enkephalin; Prodynorphin (McLaughlin, P.J. (60) 160)

Propofol
Anesthetic mechanisms; Intravenous anesthetic; Etomidate; Ketamine; Patch-clamp-technique; Whole cell; Potassium; Extracellular concentration; Potassium current; Human neuronal (Friederich, P. (60) 301)

Prostaglandin
Cyclooxygenase-2; Fever; In situ hybridization; Brain; Endothelial cell; Tumor necrosis factor (Cao, C. (56) 45)

Prostaglandin D2 synthase / β-trace
Thyroid hormone; Promoter; Gene regulation (García-Fernández, L.F. (55) 321)

Prostaglandin E_2
AP-1; Astrocytes; Calcium; CREB; ENKCRE-2; Mitogen activated protein kinase; Proenkephalin; Protein kinase A; Protein kinase C (Won, J.-S. (60) 203)

Protease
PA700; Multicatalytic proteinase; CAD protein; Human immunodeficiency virus (Nakamura, T. (53) 321)

Protease nexin-1
Excitotoxicity; Quinolinic acid; Gene expression; Hippocampal cell culture; Proteasome (Seidel, B. (60) 296)

Proteasome
Excitotoxicity; Quinolinic acid; Gene expression; Hippocampal cell culture; Protease nexin-1 (Seidel, B. (60) 296)

G-Protein-coupled receptor
Protein synthesis; Subcellular fractionation; Radioligand binding; Immunostain; Neuroblastoma cell (McIntosh, H.H. (53) 163)

Protein–DNA interaction
Estrogen; Fos; Jun; Hypothalamus; Pituitary (Zhu, Y.-S. (55) 115)

Protein kinase
Neural development; Bovine CRMP-2; *unc*-33; Chromosome mapping (Kamata, T. (54) 219)

Growth factors; Transcriptional regulation; Acetylcholine (Moffett, J. (55) 293)

Protein kinase A
Morphine; Tolerance; μ-Opioid receptor; Antinociception (Bernstein, M.A. (55) 237)

AP-1; Astrocytes; Calcium; CREB; ENKCRE-2; Mitogen activated protein kinase; Proenkephalin; Prostaglandin E_2; Protein kinase C (Won, J.-S. (60) 203)

Protein kinase C
β-Amyloid precursor protein; GAP-43; Inositol 1,4,5-trisphosphate; MARCKS; Phospholipase Cγ1; Signal transduction (Ishiguro, M. (53) 24)

Suprachiasmatic nuclei; Caudate putamen; Cerebral cortex; Circadian rhythm; In situ hybridization histochemistry (Cagampang, F.R.A. (53) 277)

Arachidonic acid; Nicotinic acetylcholine receptor; Site-directed mutagenesis; Phosphorylation; Voltage-clamp; *Xenopus* oocyte (Nishizaki, T. (57) 173)

AP-1; Astrocytes; Calcium; CREB; ENKCRE-2; Mitogen activated protein kinase; Proenkephalin; Prostaglandin E_2; Protein kinase A (Won, J.-S. (60) 203)

Nicotinic acetylcholine receptor; Single-channel recording; Site-directed mutagenesis; *Xenopus* oocyte (Nishizaki, T. (61) 211)

mRNA stability; Hypertension; Translation; Signal transduction (Sherer, T.B. (62) 167)

Protein kinase C (PKC)
Astrocytic differentiation; GFAP; Glutamine synthetase; Proliferation (Brodie, C. (56) 108)

Protein processing
Alzheimer's disease; β-Amyloid precursor protein; β-Peptide; Anticholinesterase; Neuroblastoma cell; Protein transport; THA (Lahiri, D.K. (62) 131)

Protein synthesis
G-Protein-coupled receptor; Subcellular fractionation; Radioligand binding; Immunostain; Neuroblastoma cell (McIntosh, H.H. (53) 163)

Protein transport
Alzheimer's disease; β-Amyloid precursor protein; β-Peptide; Anticholinesterase; Neuroblastoma cell; Protein processing; THA (Lahiri, D.K. (62) 131)

Protein tyrosine phosphatase
PCPTP1-Ce; *PCPTP1*; cDNA; Purkinje cell; Cerebellum; In situ hybridization; Immunohistochemistry (Watanabe, Y. (58) 83)

Leukocyte common antigen related gene; LAR; Proximal membrane; PC12 cell; Cell adhesion molecule (Honkaniemi, J. (60) 1)

Alternative splicing; RPTPβ/HPTPζ; Proteoglycan; 3F8/phosphacan; Sciatic nerve (Li, J. (60) 77)

Protein-tyrosine-phosphatase
Cytokine; DNA fingerprinting (Schumann, G. (62) 56)

Proteoglycan
Protein tyrosine phosphatase; Alternative splicing; RPTPβ/HPTPζ; 3F8/phosphacan; Sciatic nerve (Li, J. (60) 77)

Proto-oncogene
CREB; Cultured rat astrocyte; Phorbol-12-myristate-13-acetate; Proenkephalin (Won, J.-S. (54) 288)

Kainic acid; Nitric oxide; Proenkephalin; Prodynorphin; Hippocampus (Won, J.-S. (56) 76)

Ischemia; Tumor suppressor gene; Apoptosis; Selective vulnerability (McGahan, L. (56) 133)

Striatum; 6-OHDA; Dopamine; Neonate; D1-receptor; mRNA (Soghomonian, J.-J. (57) 155)

Proximal membrane
Protein tyrosine phosphatase; Leukocyte common antigen related gene; LAR; PC12 cell; Cell adhesion molecule (Honkaniemi, J. (60) 1)

PSD
CREB; Synaptic plasticity; Gene expression (Suzuki, T. (61) 69)

Psychostimulant
Cocaine; Fluoxetine; MAP kinase phosphatase; Immediate early gene; 5,7-Dihydroxytryptamine lesion; In situ hybridization (Thiriet, N. (62) 150)

Purification
Peptide; Cloning; IQ motif; Calmodulin; MBF1 (Smith, M.L. (62) 12)

Purinergic receptors
$P2X_7$-receptor; Rat; Retina; Choroid; Immunhistochemistry; RT-PCR (Brändle, U. (62) 106)

Purkinje cell
PCPTP1-Ce; *PCPTP1*; cDNA; Protein tyrosine phosphatase; Cerebellum; In situ hybridization; Immunohistochemistry (Watanabe, Y. (58) 83)

Cerebellar granule cell; In situ hybridization histochemistry; Immunocytochemistry; Myoclonus; Ataxia; Ion channel mutation (Lau, F.C. (59) 93)

Vestibular compensation; Flocculus; Differential display; Mutant mice (Kitahara, T. (61) 170)

P2X receptor
Rat; Retina; Choroid; RT-PCR (Brändle, U. (59) 269)

$P2X_7$-receptor
Purinergic receptors; Rat; Retina; Choroid; Immunhistochemistry; RT-PCR (Brändle, U. (62) 106)

Q

Quantitative PCR
Cortex; Gene expression; Hippocampus; hsp40; Ischemia; Rat brain (Paschen, W. (55) 341)

Quantitative RT-PCR
BDNF; *trk*B; Ribonuclease protection assay; Hippocampal formation (Tokuyama, W. (62) 206)

Quinolinic acid
Epilepsy; El mouse; 3-hydroxyanthranilate 3,4-dioxygenase; Excitotoxin (Nakagawa, Y. (58) 132)

Excitotoxicity; Gene expression; Hippocampal cell culture; Proteasome; Protease nexin-1 (Seidel, B. (60) 296)

R

Rab 3A
Haloperidol; Synaptobrevin; Synaptotagmin; Syntaxin; Nucleus accumbens (Nakahara, T. (61) 238)

Radioligand binding
G-Protein-coupled receptor; Protein synthesis; Subcellular fractionation; Immunostain; Neuroblastoma cell (McIntosh, H.H. (53) 163)

$GABA_A$ receptor; mRNA level; α_2 Sub-unit; Diet (Mhatre, M.C. (54) 270)

Raf-1
Erk; Ras; Bad; Nerve regeneration; Differential display; Rat (Namikawa, K. (55) 315)

Raphe nucleus
mRNA 5-HT_{1A} receptor; Human brain; Development; In situ hybridization; Prenatal; Cerebellum; Hippocampus (Del Olmo, E. (60) 123)

Ras
Tyrosine kinase; Growth factor; Nerve regeneration; ShcB; ShcC (Tanabe, K. (53) 291)

Raf-1; Erk; Bad; Nerve regeneration; Differential display; Rat (Namikawa, K. (55) 315)

Rat
trk B; trk C; Fos; Neurotrophin; Epilepsy (Hughes, P.E. (53) 138)

Gonadotropin-releasing hormone; Gonadotropin-releasing hormone receptor; Estrogen; Progesterone; Gene expression; Antisense oligonucleotide; Preoptic area; Mediobasal hypothalamus (Seong, J.Y. (53) 226)

GABA transporter; mRNA; In situ hybridization; Kindling; Hippocampus; Amygdala (Hirao, T. (54) 49)

Serotonin; Receptor; Antibody; Immunocytochemistry (Hamada, S. (54) 199)

Ca^{2+}/calmodulin-dependent protein kinase kinase; In situ hybridization histochemistry; Brain (Sakagami, H. (54) 311)

Brain; Gene expression; Glia; Neurons; Stroke (Lin, T.-N. (55) 71)

Morphine withdrawal; Body weight loss; Plasma corticosterone elevation; Preproenkephalin mRNA; Caudal periaqueductal gray; In situ hybridization (Fukunaga, Y. (55) 221)

Raf-1; Erk; Ras; Bad; Nerve regeneration; Differential display (Namikawa, K. (55) 315)

c-*fos*; c-*jun*; Cell death; Apoptosis; Hypoxia–ischemia; Glucocorticoid; Newborn (Macaya, A. (56) 29)

Calcium-calmodulin-dependent protein kinase II; Microtubule-associated protein 2; Long-term potentiation; Gene expression (Roberts, L.A. (56) 38)

Proenkephalin; D_2 dopamine receptor; Cocaine withdrawal; Striatum (Svensson, P. (56) 162)

Sleep; Sleep deprivation; Wakefulness; Cerebral cortex; Mitochondrion; Fos; Zif/268; Differential PCR display (Cirelli, C. (56) 293)

Interleukin; Cytokine; Neuroimmunology; Hypothalamus; Ventromedial nucleus; Nervous system; Feeding; Food intake; Intracerebroventricular (Plata-Salamán, C.R. (58) 188)

IGF; IGFBP; Brain; Growth factor; Hypoxia–ischemia; Neurone; Glia (Beilharz, E.J. (59) 119)

P2X receptor; Retina; Choroid; RT-PCR (Brändle, U. (59) 269)

Calcium homeostasis; Endoplasmic reticulum; Gadd153 expression; Neuronal cell culture; Thapsigargin; Transient cerebral ischemia (Paschen, W. (60) 115)

Excitotoxicity; Substance P; Seizure; Kainic acid (Zachrisson, O. (60) 291)

Brain-derived neurotrophic factor; Exon; Exercise; Hippocampus (Oliff, H.S. (61) 147)

Cholinergic; Neurons; Basal forebrain; Nerve growth factor; mRNA (Pongrac, J.L. (62) 25)

$P2X_7$-receptor; Purinergic receptors; Retina; Choroid; Immunhistochemistry; RT-PCR (Brändle, U. (62) 106)

Axotomy; c-Jun; Dorsal root ganglia; Injury; Ischemia (Martin-Villalba, A. (62) 158)

Rat brain
Neuronal nitric oxide synthase; mRNA; Hybridization; In situ; Digoxigenin; Hippocampus (Iwase, K. (53) 1)

MK-801; NMDA receptor; In situ hybridization; Human brain (Meoni, P. (54) 13)

Cortex; Gene expression; Hippocampus; hsp40; Ischemia; Quantitative PCR (Paschen, W. (55) 341)

Electroconvulsive shock; BDNF; Antidepressant; mRNA; In situ hybridisation (Zetterström, T.S.C. (57) 106)

CGRP; In situ hybridisation; Oligonucleotide; Adrenomedullin (Oliver, K.R. (57) 149)

G-protein coupling; NPY receptor subtype; Autoradiography; GTPγ[^{35}S] (Primus, R.J. (58) 74)

Microglia; Astrocyte; Interferon-inducible protein 10; Differential display; LPS; Fever; Inflammation (Ren, L.-q. (59) 256)

Tolerance; Cannabinoid receptor (CB1) mRNA; Chronic Δ^9-THC; Receptor desensitization; Semi-quantitative RT-PCR (Zhuang, S.-y. (62) 141)

Rat cell line
FGF-2 isoform; Transfection; Differentiation; In vitro; Schwann cell; PC12 cell (Grothe, C. (57) 97)

Rat hippocampal neuron
Amyloid precursor protein; Promoter; Oxidative stress; NF-κB (Yang, Y. (60) 40)

Rat hypothalamus
Prolactin receptor; mRNA; RT-PCR; Southern hybridization; Microdissection (Pi, X.-J. (59) 1)

Rat pituitary
Aripiprazole; Haloperidol; Dopamine receptor; [^{3}H]Spiperone-binding; RNase protection assay (Inoue, A. (55) 285)

Reactive oxygen species
Cerebral ischemia/reperfusion damage; Glutathione peroxidase; Transgenic mouse (Weisbrot-Lefkowitz, M. (53) 333)

Transcription factor; NF-κB; Methamphetamine; Superoxide dismutase; Transgenic mice (Asanuma, M. (60) 305)

Receptor
NPY; Species; Message distribution (Burkhoff, A.M. (53) 311)

Pituitary adenylate cyclase activating polypeptide (PACAP); Vasoactive intestinal peptide (VIP); Retina; mRNA; Inositol phospholipid hydrolysis; cAMP (D'Agata, V. (54) 161)

Serotonin; Antibody; Immunocytochemistry; Rat (Hamada, S. (54) 199)

Amyloid precursor protein; Nerve growth factor; Neurotrophic activity (Akar, C.A. (56) 125)

Angiotensin II; Regeneration; RT-PCR (Gallinat, S. (57) 111)

trk Receptor
Trigeminal neuron; Neurotrophin; Injury; Dental pulp; Nociception; Retrograde transport (Wheeler, E.F. (61) 23)

Receptor desensitization
Tolerance; Cannabinoid receptor (CB1) mRNA; Chronic Δ^9-THC; Semi-quantitative RT-PCR; Rat brain (Zhuang, S.-y. (62) 141)

Receptor regulation
γ-Aminobutyric acid; Mutant mice; Development; Immunoblotting (Thompson, C.L. (60) 282)

Receptor sequence
Renin–angiotensin system; Angiotensin receptor; AT_1 receptor antagonist; Gerbil; In situ hybridization (Moriuchi, R. (60) 234)

Receptor tyrosine kinase
Glial cell line-derived neurotrophic factor; GDNFR-α; c-*ret*; Motor neuron; Axotomy; In situ hybridization histochemistry (Burazin, T.C.D. (55) 331)

Recombinant
Nicotinic; Acetylcholine; Phosphorylation; Oocyte; Neuronal (Viseshakul, N. (59) 100)

Recombinant receptor
HEK293 cell; NMDA receptor; Desensitization; Inactivation; Patch clamp; Hippocampal cell (Kendrick, S.J. (57) 10)

Redox regulation
Nerve regeneration; Oxidative stress; Brain damage (Mansur, K. (62) 86)

Ref-1
Global cerebral ischemia; Hypothermia; Proliferating cell nuclear antigen (PCNA); DNA repair (Tomasevic, G. (60) 168)

Regeneration
Growth-associated protein; GAP-43; SNAP-25; Development (Wouters, B.C. (53) 53)

Angiotensin II; Receptor; RT-PCR (Gallinat, S. (57) 111)

Regulation of gene expression
Antisense oligonucleotide; c-*fos*; Dentate gyrus; Kainic acid; Opioid gene; Seizure; Transcription factor (Ziółkowska, B. (54) 243)

Reissner's fiber
Central nervous system; Subcommissural organ; SCO-spondin expression; Neuronal development (Creveaux, I. (55) 45)

REM sleep deprivation
Tyrosine hydroxylase; Norepinephrine transporter; In situ hybridization; Locus coeruleus (Basheer, R. (57) 235)

Renin
Brain; Pineal gland; Angiotensinogen; Angiotensin II receptor; ACE; Renin–angiotensin system (Baltatu, O. (54) 237)

Renin–angiotensin system
Brain; Pineal gland; Angiotensinogen; Angiotensin II receptor; Renin; ACE (Baltatu, O. (54) 237)

Angiotensin receptor; AT_1 receptor antagonist; Gerbil; Receptor sequence; In situ hybridization (Moriuchi, R. (60) 234)

Reporter gene
Neurotrophin-3; Transgenic mouse; Promoter; Gene expression (Kaisho, Y. (59) 114)

Resiniferatoxin
Capsaicin; Vanilloid receptor; Glial cell; Apoptosis; Differentiation (Bíró, T. (56) 89)

Retina
Pituitary adenylate cyclase activating polypeptide (PACAP); Vasoactive intestinal peptide (VIP); Receptor; mRNA; Inositol phospholipid hydrolysis; cAMP (D'Agata, V. (54) 161)

Voltage-dependent calcium channel; In situ hybridization; Gene expression; mRNA (Kamphuis, W. (55) 209)

mGluR6; CREB; Light; Phosphorylation; c-*fos* (Yoshida, K. (57) 241)

P2X receptor; Rat; Choroid; RT-PCR (Brändle, U. (59) 269)

Tryptophan hydroxylase; Pineal gland; Melatonin; Circadian clock; Photoreceptor cells (Chong, N.W. (61) 243)

$P2X_7$-receptor; Purinergic receptors; Rat; Choroid; Immunhistochemistry; RT-PCR (Brändle, U. (62) 106)

Retina ganglion cell
c-*fos*; Phospholipid synthesis; Immediate early gene; Sensorial stimulation; Photoreceptor cell; Light stimulation (Bussolino, D.F. (58) 10)

Retinoic acid
Neurotrophic factor; Nerve growth factor; Neurotrophin-3; TrkA; TrkC; Bone morphogenetic protein-2 (BMP-2) (Kobayashi, M. (53) 206)

Gonadotropin-releasing hormone; GT1-1 cells; GnRH release; Transcriptional regulation (Cho, S. (54) 74)

Retrograde transport
Trigeminal neuron; Neurotrophin; trk Receptor; Injury; Dental pulp; Nociception (Wheeler, E.F. (61) 23)

Reverse transcriptase–polymerase chain reaction (RT-PCR)
5-HT receptor; Astrocyte; cAMP (Hirst, W.D. (61) 90)

Ribonuclease H
Antisense oligonucleotides; Phosphorothioates; Corticotropin releasing factor type-2 receptor (Peng Ho, S. (62) 1)

Ribonuclease protection assay
Human D_4 dopamine receptor; Schizophrenia; Frontal cortex; Caudate (Stefanis, N.C. (53) 112)

BDNF; *trk*B; Quantitative RT-PCR; Hippocampal formation (Tokuyama, W. (62) 206)

***R*-methanandamide**
CP-55,940; Tetrahydrocannabinol; Proenkephalin; mRNA; Ventromedial nucleus; Striatum; Periaqueductal grey; Mammillary nucleus (Manzanares, J. (55) 126)

RNase protection assay
Aripiprazole; Haloperidol; Dopamine receptor; [^{3}H]Spiperone-binding; Rat pituitary (Inoue, A. (55) 285)

Behavioral sensitization; Striatum; Nucleus accumbens; Mesencephalon; Dopamine (Michelhaugh, S.K. (62) 35)

RNA splicing
Hypoxia/reoxygenation; Yeast two-hybrid; cDNA (Imai, Y. (53) 33)

Nerve regeneration; Tra2β; Brain damage (Kiryu-Seo, S. (62) 220)

Rostral pole
Drugs of abuse; Nucleus accumbens; Opioid; Shell; Core (Mathieu-Kia, A.-M. (54) 141)

Rostral ventrolateral medulla
C1 adrenaline neuron; RVL; NAT; Immunohistochemistry; Single-cell RT-PCR (Comer, A.M. (62) 65)

Rough endoplasmic reticulum (rER)
Cortex; Differential display; Glycoprotein; Olfactomedin (Nagano, T. (53) 13)

RPTPβ/HPTPζ
Protein tyrosine phosphatase; Alternative splicing; Proteoglycan; 3F8/phosphacan; Sciatic nerve (Li, J. (60) 77)

RT–PCR
mRNA; Gene expression; Cochlea; Hair cells; Spiral ganglion; Nicotinic acetylcholine receptor subunits; In situ hybridization (Morley, B.J. (53) 78)

Astrocyte; Oligodendrocyte; Immunohistochemistry (García-Barcina, J.M. (53) 270)

Angiotensin II; Receptor; Regeneration (Gallinat, S. (57) 111)

NGF; PC12 cell; TrkA; Neurite outgrowth; Autocrine (Gill, J.S. (57) 123)

Brain-derived neurotrophic factor; Tyrosine kinase receptor; Light–dark cycle; Cerebral cortex; Hippocampus (Bova, R. (57) 321)

Glaucoma; THC; Gene expression; CB; Eye (Porcella, A. (58) 240)

Prolactin receptor; mRNA; Rat hypothalamus; Southern hybridization; Microdissection (Pi, X.-J. (59) 1)

Antisense oligodeoxynucleotide; Analgesia; cAMP; G-protein; Immunoblotting; Morphine; mRNA; Mouse; Opioid potency; Striatum (Shen, J. (59) 247)

P2X receptor; Rat; Retina; Choroid (Brändle, U. (59) 269)

$P2X_7$-receptor; Purinergic receptors; Rat; Retina; Choroid; Immunhistochemistry (Brändle, U. (62) 106)

RVD (regulatory volume decrease)
Astrocyte; Transgenic mouse; GFAP; Vimentin; Taurine (Ding, M. (62) 77)

RVL
C1 adrenaline neuron; Rostral ventrolateral medulla; NAT; Immunohistochemistry; Single-cell RT-PCR (Comer, A.M. (62) 65)

S

Salmon-GnRH
LHRH; Seabream-GnRH; Chicken II-GnRH; Terminal nerve; Nucleus olfactoretinalis; Preoptic area; Midbrain; In situ hybridization (Soga, T. (60) 13)

Sardinian alcohol-nonpreferring rat
Tachykinin; Preprotachykinin-A gene; Sardinian alcohol-preferring rat; Bed nucleus stria terminalis; Olfactory tubercle (Pompei, P. (56) 277)

Sardinian alcohol-preferring rat
Tachykinin; Preprotachykinin-A gene; Sardinian alcohol-nonpreferring rat; Bed nucleus stria terminalis; Olfactory tubercle (Pompei, P. (56) 277)

Scarpa's ganglion
Acetylcholine receptor inducing activity; Spiral ganglion; Cochlea; In situ hybridization; Growth factor (Morley, B.J. (54) 170)

SCH-23390
Immediate early gene; Glutamate; NMDA; Dopamine; ACPD; MCPG; CPP (Wang, J.Q. (57) 46)

Schizophrenia
Human D_4 dopamine receptor; Ribonuclease protection assay; Frontal cortex; Caudate (Stefanis, N.C. (53) 112)

G protein-linked receptor; Atypical antipsychotic drugs (Qian, I.H.-P. (53) 339)

N-methyl-D-aspartate (NMDA); Gene expression; mRNA; Flupenthixol; Multiprobe oligonucleotide solution hybridization (MOSH); Antipsychotic drugs (Chen, A.C.-H. (54) 92)

Excitatory amino acid; Glutamate; Metabotropic glutamate receptor; Glutamate transporter; In situ hybridization (Ohnuma, T. (56) 207)

Antipsychotic; c-*fos*; Neurotensin; Dopamine; D2 receptor (Meng, Z.-h. (61) 39)

Schwann cell
Myelin-associated glycoprotein; Myelination; Peripheral nervous system; Development; Differential expression; Polymorphism; Phosphorylation (Kursula, P. (54) 252)

FGF-2 isoform; Transfection; Differentiation; In vitro; Rat cell line; PC12 cell (Grothe, C. (57) 97)

Sciatic nerve
Protein tyrosine phosphatase; Alternative splicing; RPTPβ/HPTPζ; Proteoglycan; 3F8/phosphacan (Li, J. (60) 77)

Scorpion toxins
Sodium channels; mRNA; Neuron; Gene expression; cAMP; Calcium; Proenkephalin (Giraud, P. (56) 238)

SCO-spondin expression
Central nervous system; Subcommissural organ; Reissner's fiber; Neuronal development (Creveaux, I. (55) 45)

Seabream-GnRH
LHRH; Chicken II-GnRH; Salmon-GnRH; Terminal nerve; Nucleus olfactoretinalis; Preoptic area; Midbrain; In situ hybridization (Soga, T. (60) 13)

Secondary injury
Cytokine; Gene expression; Inflammation; Transcription factor (Xu, J. (59) 135)

Secretase
Amyloid precursor protein; Amyloid beta; Alzheimer's disease; Astrocytes; Smooth muscle cells (Meckelein, B. (55) 181)

Seizure
Antisense oligonucleotide; c-*fos*; Dentate gyrus; Kainic acid; Opioid gene; Transcription factor; Regulation of gene expression (Ziółkowska, B. (54) 243)

Brain-derived neurotrophic factor; Exon; Glucocorticoid; In situ hybridization (Lauterborn, J.C. (55) 81)

Immediate-early gene; c-*fos*; Kindling; Antisense oligodeoxynucleotide; Gene expression (Chiasson, B.J. (57) 248)

Nurr1; mRNA; Kainic acid; Hippocampus; In situ hybridization (Crispino, M. (59) 178)

Excitotoxicity; Rat; Substance P; Kainic acid (Zachrisson, O. (60) 291)

Gene expression; Electroconvulsive shock; mRNA; Glutamate (Watkins, C.J. (61) 108)

Seizures
Glutamate–aspartate transporter (GLAST/GluT-1); Kainic acid; Hippocampus (Nonaka, M. (55) 54)

Selective vulnerability
Ischemia; Proto-oncogene; Tumor suppressor gene; Apoptosis (McGahan, L. (56) 133)

Ischemia; Immediate-early gene; Apoptosis (McGahan, L. (56) 146)

Semi-quantitative RT/PCR
Choline acetyltransferase mRNA; Muscarinic receptor subtype mRNA; Flinders sensitive rats; Cholinergic hypersensitivity (Greco, M.A. (55) 232)

Semi-quantitative RT-PCR
Tolerance; Cannabinoid receptor (CB1) mRNA; Chronic Δ^9-THC; Receptor desensitization; Rat brain (Zhuang, S.-y. (62) 141)

Sensitization
Morphine; Striatum; c-*fos*; In situ hybridization (Erdtmann-Vourliotis, M. (61) 51)

6-hydroxydopamine; Dopamine receptor; Basal ganglia; Turning behavior; In situ hybridization (Van de Witte, S.V. (61) 219)

Sensorial stimulation
c-*fos*; Phospholipid synthesis; Immediate early gene; Retina ganglion cell; Photoreceptor cell; Light stimulation (Bussolino, D.F. (58) 10)

Sensorimotor integration
Calcium-binding proteins; Calretinin mRNA; Human thalamus; In situ hybridization technique; Postmortem human tissue (Cicchetti, F. (54) 1)

SERCA
Alternative splicing; Pre-mRNA processing; Splice site selection; Neuroblastoma; Neuron (Baba-Aïssa, F. (55) 92)

Serotonergic
Amyloid β peptide; Alzheimer's disease; Cellular redox activity; Cholinergic (Olesen, O.F. (57) 266)

Serotonin
Estrogen; Progesterone; Dorsal raphe; SERT; Primate (Pecins-Thompson, M. (53) 120)

Receptor; Antibody; Immunocytochemistry; Rat (Hamada, S. (54) 199)

Tryptophan hydroxylase; Transcription; CCAAT box; CBF/NF-Y (Teerawatanasuk, N. (55) 61)

Vesicular monoamine transporter; Estradiol; Progesterone; [^{3}H]dihydrotetrabenazine; Dopamine (Rehavi, M. (57) 31)

5-HT_{2A} receptor; Frontal, cingulate and piriform cortex; Nucleus accumbens; Caudate-putamen; Aromatase (Sumner, B.E.H. (59) 205)

Serotonin receptor
In situ hybridization; Depression; Steroid hormone; Estrogen; Brain (Österlund, M.K. (55) 169)

Alcoholism; Single-stranded conformational polymorphism (SSCP); Polymorphism; Genetic variation; Point mutation; Amino acid substitution (Iwata, N. (58) 217)

SERT
Estrogen; Progesterone; Dorsal raphe; Serotonin; Primate (Pecins-Thompson, M. (53) 120)

Serum withdrawal
MPP^+; A23187; Calcium imaging; Glutamate (McMahon, A. (54) 56)

Sex difference
Estrogen; Enkephalin; Preoptic AREA; Hypothalamus; Opioid (Segarra, A.C. (60) 133)

ShcB
Tyrosine kinase; Growth factor; Ras; Nerve regeneration; ShcC (Tanabe, K. (53) 291)

ShcC
Tyrosine kinase; Growth factor; Ras; Nerve regeneration; ShcB (Tanabe, K. (53) 291)

Shell
Drugs of abuse; Nucleus accumbens; Opioid; Rostral pole; Core (Mathieu-Kia, A.-M. (54) 141)

Signal transduction
β-Amyloid precursor protein; GAP-43; Inositol 1,4,5-trisphosphate; MARCKS; Phospholipase Cγ1; Protein kinase C (Ishiguro, M. (53) 24)

cGMP; Phosphodiesterase; Cone; Photoreceptor; cDNA; Polyclonal antibody; mRNA expression; Ground squirrel (Von Schantz, M. (54) 327)

Galanin; G protein-coupled receptor; Gene structure; Tissue distribution (Fathi, Z. (58) 156)

Lysophosphatidic acid; Phospholipase C; Araguspongine E/xestospongin C; Inositol trisphosphate receptor; *Xenopus* oocyte (Kakizawa, K. (61) 232)

mRNA stability; Protein kinase C; Hypertension; Translation (Sherer, T.B. (62) 167)

Single cell RT–PCR
SP receptor mRNA; Tissue RT–PCR; SP receptor protein; Polyclonal antibody; Double labeling; SNc DA neurons (Futami, T. (54) 183)

C1 adrenaline neuron; Rostral ventrolateral medulla; RVL; NAT; Immunohistochemistry (Comer, A.M. (62) 65)

Single-channel recording
Nicotinic acetylcholine receptor; Protein kinase C; Site-directed mutagenesis; *Xenopus* oocyte (Nishizaki, T. (61) 211)

Single-stranded conformational polymorphism (SSCP)
Serotonin receptor; Alcoholism; Polymorphism; Genetic variation; Point mutation; Amino acid substitution (Iwata, N. (58) 217)

Site-directed mutagenesis
Arachidonic acid; Nicotinic acetylcholine receptor; Protein kinase C; Phosphorylation; Voltage-clamp; *Xenopus* oocyte (Nishizaki, T. (57) 173)

Nicotinic acetylcholine receptor; Single-channel recording; Protein kinase C; *Xenopus* oocyte (Nishizaki, T. (61) 211)

SK-N-SH
Oxytocin receptor; Promoter; Transfection; MCF7; Phorbol 12-myristate 13-acetate; Forskolin (Bale, T.L. (53) 130)

SKP1
Brain; Dark-rearing; Visual; Critical period; Cell cycle (Uro-Coste, E. (56) 192)

Sleep
Sleep deprivation; Wakefulness; Cerebral cortex; Mitochondrion; Fos; Zif/268; Differential PCR display; Rat (Cirelli, C. (56) 293)

Sleep deprivation
Sleep; Wakefulness; Cerebral cortex; Mitochondrion; Fos; Zif/268; Differential PCR display; Rat (Cirelli, C. (56) 293)

Slit
Leucine-rich repeat; EGF-like; *Drosophila* (Itoh, A. (62) 175)

Smooth muscle cells
Amyloid precursor protein; Amyloid beta; Alzheimer's disease; Secretase; Astrocytes (Meckelein, B. (55) 181)

SNAP-25
Growth-associated protein; GAP-43; Development; Regeneration (Wouters, B.C. (53) 53)

SNc DA neurons
SP receptor mRNA; Tissue RT–PCR; Single cell RT–PCR; SP receptor protein; Polyclonal antibody; Double labeling (Futami, T. (54) 183)

Sodium butyrate
Histone acetylation; Trichostatin A; Transcription factor (Salminen, A. (61) 203)

Sodium channel
mRNA; Neuron; Gene expression; cAMP; Calcium; Proenkephalin; Scorpion toxins (Giraud, P. (56) 238)

Human brain; Planar lipid bilayer; Batrachotoxin; Voltage-clamp (Frenkel, C. (59) 22)

Sodium valproate
Lithium chloride; c-Fos; c-Jun; Fos-related antigen; Activity protein-1 binding; Bipolar disorder (Asghari, V. (58) 95)

Soluble interleukin-6 receptor
Alzheimer's; Beta amyloid precursor protein; Interleukin-6 (Ringheim, G.E. (55) 35)

Somatostatin
Suprachiasmatic nucleus; Paraventricular nucleus; Supraoptic nucleus; Vasopressin; Vasoactive intestinal peptide (Duncan, M.J. (57) 142)

Somatostatin receptor 2; Immunocytochemistry; Cell line; Glycosylation (Hervieu, G. (58) 138)

ppSom mRNA; Gene expression; Cerebral cortex; Cyclic-AMP (Capone, G. (60) 247)

Somatostatin receptor 2
Somatostatin; Immunocytochemistry; Cell line; Glycosylation (Hervieu, G. (58) 138)

Somatostatin receptor
Microglia; Octreotide; Proliferation; Phosphorylation (Feindt, J. (60) 228)

Southern blot
G-protein-linked receptor; Polymerase chain reaction (Liu, I.S.C. (53) 98)

Southern hybridization
Prolactin receptor; mRNA; Rat hypothalamus; RT-PCR; Microdissection (Pi, X.-J. (59) 1)

***Sox* gene**
Chick embryo; EGL; Cerebellum; Granule cell (Rex, M. (55) 28)

Sp1
Gene regulation; Dopamine; DOPA decarboxylase; Drifter; NF-Y (Raynal, J.-F. (56) 227)

Species
NPY; Receptor; Message distribution (Burkhoff, A.M. (53) 311)

Spectrin
Hippocampal neuron; Calpain; Excitotoxicity; Imaging; Calcium; Primary culture (Adamec, E. (54) 35)

Comprehensive cDNA analysis; Large protein; Gene discovery; Brain (Ohara, O. (57) 181)

Spinal cord
Calpain; Calpastatin; In situ hybridization; Hippocampus; *Mnd* mice (Li, J. (53) 174)

Spiral ganglion
mRNA; Gene expression; Cochlea; Hair cells; Nicotinic acetylcholine receptor subunits; In situ hybridization; RT–PCR (Morley, B.J. (53) 78)

Acetylcholine receptor inducing activity; Scarpa's ganglion; Cochlea; In situ hybridization; Growth factor (Morley, B.J. (54) 170)

Splice site selection
SERCA; Alternative splicing; Pre-mRNA processing; Neuroblastoma; Neuron (Baba-Aïssa, F. (55) 92)

SP receptor mRNA
Tissue RT–PCR; Single cell RT–PCR; SP receptor protein; Polyclonal antibody; Double labeling; SNc DA neurons (Futami, T. (54) 183)

SP receptor protein
SP receptor mRNA; Tissue RT–PCR; Single cell RT–PCR; Polyclonal antibody; Double labeling; SNc DA neurons (Futami, T. (54) 183)

Squamous cell carcinoma antigen and serine proteinase inhibitor
Microglial activation; Lipopolysaccharides; Differential display (Thakker-Varia, S. (56) 99)

staggerer mutant mouse
Lurcher mutant mouse; Neurodegeneration; Cerebellum; Inflammation; Proinflammatory cytokine; IL-1β; ELISA (Vernet-der Garabedian, B. (62) 224)

Stathmin
MnSOD; Superoxide; Mitochondria; mRNA; Differential display; Induction (Li, Y. (55) 277)

Stereotypy
GABA receptor; Cocaine; Locomotion; Antisense oligodeoxynucleotide (Peris, J. (57) 310)

Steroid hormone
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NGF; NT-3; GDNF; IGF-I; TGF-α; trk Receptor; Neurodegeneration; Neurotrophin (Connor, B. (27) 1)

Behavior
Interferon; Endocrine; Opiate; Thermosensitive neuron; PNS; CNS; EEG; Evoked potential; Single cell; Glucose sensitive neuron; Electrical activity (Dafny, N. (26) 1)

Protein kinase A; Memory consolidation; Memory suppression (Abel, T. (26) 360)

Behavioral sensitization
Dopamine D_3 receptor; D_1/D_3 receptor interactions; Schizophrenia; Antipsychotics; Parkinson's disease (Schwartz, J.-C. (26) 236)

Bilirubin
Heme; Poly(ADP-ribose) polymerase; Neurotoxicity; PDZ domain; Protein kinase C (Snyder, S.H. (26) 167)

Biomechanics
Vestibular–visual–somatosensory interaction; Postural control; Coordinate transformation; Microgravity; Human (Mergner, T. (28) 118)

Brain
Magnetic; Imaging; Memory (Tagaris, G.A. (26) 106)

Interleukin receptors; Neurodegeneration; Localization; Transduction (Loddick, S.A. (26) 306)

Consciousness; Mind; Neurobiology (Searle, J.R. (26) 379)

Apolipoprotein E; Alzheimer's disease; Low density lipoprotein receptor; Low density lipoprotein receptor related protein; Apolipoprotein J; Apolipoprotein D; Very low density lipoprotein receptor; Apolipoprotein E receptor 2; Neuronal plasticity; Cholinergic dysfunction (Beffert, U. (27) 119)

Myosin V; Organelle motility; ER; Axonal transport; Squid axoplasm; Actin filament; Synaptic vesicle; Ataxia (Langford, G.M. (28) 1)

Neostriatum; Nucleus accumbens; Substantia nigra; Tegmentum; Mesolimbic; Nigrostriatal; Mesotelencephalic mesostriatal; Dopamine; 6-hydroxydopamine; Lateral hypothalamus; Reinforcement; Motivation; Self-administration; Conditioning; Reward; Emotion; Palatability (Berridge, K.C. (28) 309)

Transcription factor; Jun; Fos; Krox; Zif; CREB; ATF; SRF; Neuron; Review (Herdegen, T. (28) 370)

Brain iron accumulation
Lactotransferrin receptor; Melanotransferrin; Ceruloplasmin; Divalent cation transporter; Neurodegenerative disease (Qian, Z.M. (27) 257)

C

Cajal–Retzius cell
Marginal zone; Subplate; Pioneer neuron; Cerebral cortex; Development; Evolution (Supèr, H. (27) 40)

Calcium oscillation
Glutamate receptors; Visual information; Visual contrast; Intracellular signal transduction; Protein phosphorylation (Nakanishi, S. (26) 230)

Cancer
Alcohol; Astrocytoma; Cell culture; Cell cycle; Cell proliferation; Fetal alcohol syndrome; Glia; Neuron; Neuroblastoma (Luo, J. (27) 157)

Ca^{2+} permeability of GluR channels
Fast excitatory neurotransmission: AMPA, NMDA and kainate receptors; RNA-dependent adenosine deaminases; Epilepsy; Excitotoxicity (Seeburg, P.H. (26) 217)

Carbamazepine
Sodium channel; Antiepileptic drug; Phenytoin; Valproate; Lamotrigine; Topiramate (Ragsdale, D.S. (26) 16)

Catecholamines
Parkinson's disease; Schizophrenia; Dopamine; Neuropsychiatric disease; Orphan neurones; Lewy body; Neuroaxonal dystrophy; LIF spots; Amine accumulation; Hypothalamus (Willis, G.L. (27) 177)

Ca^{2+} wave
Intracellular calcium mobilization; Inositol 1,4,5-trisphosphate receptor; Transporter; Mitochondrion; Mitochondrial impairment (Simpson, P.B. (26) 72)

Cell adhesion
Neural development; Segmentation; Gene regulation; Homeodomain; Paired domain; Transcription (Edelman, G.M. (26) 337)

Cell culture
Alcohol; Astrocytoma; Cancer; Cell cycle; Cell proliferation; Fetal alcohol syndrome; Glia; Neuron; Neuroblastoma (Luo, J. (27) 157)

Cell cycle
Alcohol; Astrocytoma; Cancer; Cell culture; Cell proliferation; Fetal alcohol syndrome; Glia; Neuron; Neuroblastoma (Luo, J. (27) 157)

Cell proliferation
Alcohol; Astrocytoma; Cancer; Cell culture; Cell cycle; Fetal alcohol syndrome; Glia; Neuron; Neuroblastoma (Luo, J. (27) 157)

Central representation
Posture; Gravitational force; Sensorimotor adaptation; Planning; Kinematics (Pozzo, T. (28) 92)

Cerebellum
Reeler; Neuronal migration; Cortex; Molecular neurobiology; Genetics (Curran, T. (26) 285)

Lead poisoning; Child; Neurotoxicity; Hippocampus; Prefrontal cortex (Finkelstein, Y. (27) 168)

Cerebral blood vessels
Anorexia; Dorsal root ganglia; Food intake; Neurotransmitters; Prion (Hökfelt, T. (26) 154)

Cerebral cortex
Cajal–Retzius cell; Marginal zone; Subplate; Pioneer neuron; Development; Evolution (Supèr, H. (27) 40)

Ceruloplasmin
Lactotransferrin receptor; Melanotransferrin; Divalent cation transporter; Brain iron accumulation; Neurodegenerative disease (Qian, Z.M. (27) 257)

Chemotactic receptor
Complement; Traumatic brain injury; Anaphylatoxin (Stahel, P.F. (27) 243)

Child
Lead poisoning; Neurotoxicity; Hippocampus; Prefrontal cortex; Cerebellum (Finkelstein, Y. (27) 168)

Cholinergic dysfunction
Apolipoprotein E; Alzheimer's disease; Brain; Low density lipoprotein receptor; Low density lipoprotein receptor related protein; Apolipoprotein J; Apolipoprotein D; Very low density lipoprotein receptor; Apolipoprotein E receptor 2; Neuronal plasticity (Beffert, U. (27) 119)

CNS
Interferon; Behavior; Endocrine; Opiate; Thermosensitive neuron; PNS; EEG; Evoked potential; Single cell; Glucose sensitive neuron; Electrical activity (Dafny, N. (26) 1)

CNS development
Neurogenesis; Sensory system development; Neuronal differentiation; Glial differentiation; Gravity (Duprat, A.-M. (28) 19)

Cognitive processes
Spaceflight; Microgravity; Mental performance; Tracking; Dual-task (Manzey, D. (28) 215)

Complement
Traumatic brain injury; Anaphylatoxin; Chemotactic receptor (Stahel, P.F. (27) 243)

Computer
Human cerebral cortex; Field; Parallel (Roland, P.E. (26) 87)

Conditioned taste aversion
Pleasure; Feeding; Food intake appetitive behavior; Consummatory behavior; Affect; Anhedonia; Hedonic; Diazepam; Taste; Taste reactivity; Aphagia; Aversion; Appetite; Ingestion; Neurotransmitters; Substance-related disorders; Addiction (Berridge, K.C. (28) 309)

Conditioning
Neostriatum; Nucleus accumbens; Substantia nigra; Tegmentum; Mesolimbic; Nigrostriatal; Mesotelencephalic mesostriatal; Dopamine; 6-hydroxydopamine; Lateral hypothalamus; Brain; Reinforcement; Motivation; Self-administration; Reward; Emotion; Palatability (Berridge, K.C. (28) 309)

Consciousness
Mind; Brain; Neurobiology (Searle, J.R. (26) 379)

Consummatory behavior
Pleasure; Feeding; Food intake appetitive behavior; Affect; Anhedonia; Hedonic; Diazepam; Conditioned taste aversion; Taste; Taste reactivity; Aphagia; Aversion; Appetite; Ingestion; Neurotransmitters; Substance-related disorders; Addiction (Berridge, K.C. (28) 309)

Coordinate transformation
Vestibular–visual–somatosensory interaction; Postural control; Biomechanics; Microgravity; Human (Mergner, T. (28) 118)

Coordination
Posture; Movement; Microgravity (Massion, J. (28) 83)

Coriolis force
Reaching; Movement; Trajectory; Adaptation; Equilibrium point theory (Lackner, J.R. (28) 194)

Cortex
Reeler; Neuronal migration; Cerebellum; Molecular neurobiology; Genetics (Curran, T. (26) 285)

Aging; Acetylcholine; Basal forebrain; Rodent (Sarter, M. (27) 143)

Corticothalamic feedback
Vibrissal sensory system; Thalamocortical projection; Layer 6 cell; Thalamic relay cell; Reciprocity (Deschênes, M. (28) 286)

CREB
Transcription factor; Jun; Fos; Krox; Zif; ATF; SRF; Neuron; Brain; Review (Herdegen, T. (28) 370)

Critical period
Microgravity; Locomotion (Walton, K. (28) 25)

Vestibular macula; Altered gravity; Synaptogenesis (Ross, M.D. (28) 44)

Cytokine
Neurologic disorder; Transgenic; Astrocyte (Campbell, I.L. (26) 327)

D

D_1/D_3 receptor interactions
Dopamine D_3 receptor; Behavioral sensitization; Schizophrenia; Antipsychotics; Parkinson's disease (Schwartz, J.-C. (26) 236)

Death
NGF; Neurotrophic; Signal transduction; Receptor (Chao, M. (26) 295)

Descending pathway
Locomotion; Posture; Gravity; Spinal network (Clarac, F. (28) 35)

Development
Cajal–Retzius cell; Marginal zone; Subplate; Pioneer neuron; Cerebral cortex; Evolution (Supèr, H. (27) 40)

Diazepam
Pleasure; Feeding; Food intake appetitive behavior; Consummatory behavior; Affect; Anhedonia; Hedonic; Conditioned taste aversion; Taste; Taste reactivity; Aphagia; Aversion; Appetite; Ingestion; Neurotransmitters; Substance-related disorders; Addiction (Berridge, K.C. (28) 309)

Divalent cation transporter
Lactotransferrin receptor; Melanotransferrin; Ceruloplasmin; Brain iron accumulation; Neurodegenerative disease (Qian, Z.M. (27) 257)

Dopamine
Intercellular communication; Striatal lesions (Zoli, M. (26) 136)

Dopamine transporter; Knockout mice; Microdialysis; Volume transmission; Voltammetry (Gainetdinov, R.R. (26) 148)

Parkinson's disease; Schizophrenia; Catecholamines; Neuropsychiatric disease; Orphan neurones; Lewy body; Neuroaxonal dystrophy; LIF spots; Amine accumulation; Hypothalamus (Willis, G.L. (27) 177)

Neostriatum; Nucleus accumbens; Substantia nigra; Tegmentum; Mesolimbic; Nigrostriatal; Mesotelencephalic mesostriatal; 6-hydroxydopamine; Lateral hypothalamus; Brain; Reinforcement; Motivation; Self-administration; Conditioning; Reward; Emotion; Palatability (Berridge, K.C. (28) 309)

Dopamine D_3 receptor
D_1/D_3 receptor interactions; Behavioral sensitization; Schizophrenia; Antipsychotics; Parkinson's disease (Schwartz, J.-C. (26) 236)

Dopamine receptors
Adenosine receptors; Receptor–receptor interactions; Basal ganglia; Membrane (Fuxe, K. (26) 258)

Dopamine transporter
Dopamine; Knockout mice; Microdialysis; Volume transmission; Voltammetry (Gainetdinov, R.R. (26) 148)

Dorsal root ganglia
Anorexia; Cerebral blood vessels; Food intake; Neurotransmitters; Prion (Hökfelt, T. (26) 154)

Dual-task
Spaceflight; Microgravity; Mental performance; Tracking; Cognitive processes (Manzey, D. (28) 215)

E

EEG
Interferon; Behavior; Endocrine; Opiate; Thermosensitive neuron; PNS; CNS; Evoked potential; Single cell; Glucose sensitive neuron; Electrical activity (Dafny, N. (26) 1)

Electrical activity
Interferon; Behavior; Endocrine; Opiate; Thermosensitive neuron; PNS; CNS; EEG; Evoked potential; Single cell; Glucose sensitive neuron (Dafny, N. (26) 1)

Electrical synapses
Molecular neuroscience; Gap junctions; Glia; Intercellular volume transmission; Interneuronal communication (Dermietzel, R. (26) 176)

Emotion
Neostriatum; Nucleus accumbens; Substantia nigra; Tegmentum; Mesolimbic; Nigrostriatal; Mesotelencephalic mesostriatal; Dopamine; 6-hydroxydopamine; Lateral hypothalamus; Brain; Reinforcement; Motivation; Self-administration; Conditioning; Reward; Palatability (Berridge, K.C. (28) 309)

Endocrine
Interferon; Behavior; Opiate; Thermosensitive neuron; PNS; CNS; EEG; Evoked potential; Single cell; Glucose sensitive neuron; Electrical activity (Dafny, N. (26) 1)

Epilepsy
Fast excitatory neurotransmission; AMPA, NMDA and kainate receptors; Ca^{2+} permeability of GluR channels; RNA-dependent adenosine deaminases; Excitotoxicity (Seeburg, P.H. (26) 217)

Equilibrium point theory
Reaching; Movement; Trajectory; Adaptation; Coriolis force (Lackner, J.R. (28) 194)

ER
Myosin V; Brain; Organelle motility; Axonal transport; Squid axoplasm; Actin filament; Synaptic vesicle; Ataxia (Langford, G.M. (28) 1)

Evoked potential
Interferon; Behavior; Endocrine; Opiate; Thermosensitive neuron; PNS; CNS; EEG; Single cell; Glucose sensitive neuron; Electrical activity (Dafny, N. (26) 1)

Evolution
Cajal–Retzius cell; Marginal zone; Subplate; Pioneer neuron; Cerebral cortex; Development (Supèr, H. (27) 40)

Striatum; Pallidum; Substantia nigra; Intralaminar nucleus; Ventral tier; Motor function; Segmental development; Neurotransmitter (Reiner, A (28) 235)

Excitotoxicity
Fast excitatory neurotransmission; AMPA, NMDA and kainate receptors; Ca^{2+} permeability of GluR channels; RNA-dependent adenosine deaminases; Epilepsy (Seeburg, P.H. (26) 217)

Eye movement measurement
Three-dimensional vestibulo-ocular reflex; Otolith–ocular reflex; Spatial orientation; Microgravity; Ocular torsion (Clarke, A.H. (28) 173)

F

Fast excitatory neurotransmission
AMPA, NMDA and kainate receptors; Ca^{2+} permeability of GluR channels; RNA-dependent adenosine deaminases; Epilepsy; Excitotoxicity (Seeburg, P.H. (26) 217)

Feeding
Pleasure; Food intake appetitive behavior; Consummatory behavior; Affect; Anhedonia; Hedonic; Diazepam; Conditioned taste aversion; Taste; Taste reactivity; Aphagia; Aversion; Appetite; Ingestion; Neurotransmitters; Substance-related disorders; Addiction (Berridge, K.C. (28) 309)

Fetal alcohol syndrome
Alcohol; Astrocytoma; Cancer; Cell culture; Cell cycle; Cell proliferation; Glia; Neuron; Neuroblastoma (Luo, J. (27) 157)

Field
Human cerebral cortex; Computer; Parallel (Roland, P.E. (26) 87)

Food intake
Anorexia; Cerebral blood vessels; Dorsal root ganglia; Neurotransmitters; Prion (Hökfelt, T. (26) 154)

Food intake appetitive behavior
Pleasure; Feeding; Consummatory behavior; Affect; Anhedonia; Hedonic; Diazepam; Conditioned taste aversion; Taste; Taste reactivity; Aphagia; Aversion; Appetite; Ingestion; Neurotransmitters; Substance-related disorders; Addiction (Berridge, K.C. (28) 309)

Force
Position; Muscle; Microgravity; Sensorimotor (Gielen, C.C.A.M. (28) 136)

Fos
Transcription factor; Jun; Krox; Zif; CREB; ATF; SRF; Neuron; Brain; Review (Herdegen, T. (28) 370)

Frequency analysis
Space flight; Video-tracking; Attention; Posterior parietal electrocorticogram; Monkey (Graille, C. (28) 52)

G

GABA receptor
Neocortex; Hippocampus; Glutamate receptor; Synapse; Neurotransmission (Somogyi, P. (26) 113)

Gap junctions
Molecular neuroscience; Electrical synapses; Glia; Intercellular volume transmission; Interneuronal communication (Dermietzel, R. (26) 176)

GDNF
NGF; BDNF; NT-3; IGF-I; TGF-α; trk Receptor; Neurodegeneration; Neurotrophin (Connor, B. (27) 1)

Gene regulation
Neural development; Cell adhesion; Segmentation; Homeodomain; Paired domain; Transcription (Edelman, G.M. (26) 337)

Genetics
Reeler; Neuronal migration; Cortex; Cerebellum; Molecular neurobiology (Curran, T. (26) 285)

Glia
Molecular neuroscience; Electrical synapses; Gap junctions; Intercellular volume transmission; Interneuronal communication (Dermietzel, R. (26) 176)

Alcohol; Astrocytoma; Cancer; Cell culture; Cell cycle; Cell proliferation; Fetal alcohol syndrome; Neuron; Neuroblastoma (Luo, J. (27) 157)

Glial development
Neuroglia; Oligodendrocyte; Astrocyte; Microglia; Hypomyelination; Jimpy; PLP (Vela, J.M. (26) 29)

Glial differentiation
Neurogenesis; CNS development; Sensory system development; Neuronal differentiation; Gravity (Duprat, A.-M. (28) 19)

Glucose sensitive neuron
Interferon; Behavior; Endocrine; Opiate; Thermosensitive neuron; PNS; CNS; EEG; Evoked potential; Single cell; Electrical activity (Dafny, N. (26) 1)

Glutamate
Locomotion; Ion channels; Networks; Glycine; Tachykinin; Modellin (Grillner, S. (26) 184)

Glutamate receptor
Neocortex; Hippocampus; GABA receptor; Synapse; Neurotransmission (Somogyi, P. (26) 113)

Visual information; Visual contrast; Intracellular signal transduction; Calcium oscillation; Protein phosphorylation (Nakanishi, S. (26) 230)

Glycine
Locomotion; Ion channels; Networks; Glutamate; Tachykinin; Modellin (Grillner, S. (26) 184)

Gravitational force
Posture; Sensorimotor adaptation; Central representation; Planning; Kinematics (Pozzo, T. (28) 92)

Gravity
Neurogenesis; CNS development; Sensory system development; Neuronal differentiation; Glial differentiation (Duprat, A.-M. (28) 19)

Locomotion; Posture; Descending pathway; Spinal network (Clarac, F. (28) 35)

Human motor behaviour; Laws of motion (McIntyre, J. (28) 143)

H

Head-down bed rest
Heart rate variability; Baroreflex; Space flight (Fortrat, J.-O. (28) 66)

Heart rate variability
Baroreflex; Head-down bed rest; Space flight (Fortrat, J.-O. (28) 66)

Hedonic
Pleasure; Feeding; Food intake appetitive behavior; Consummatory behavior; Affect; Anhedonia; Diazepam; Conditioned taste aversion; Taste; Taste reactivity; Aphagia; Aversion; Appetite; Ingestion; Neurotransmitters; Substance-related disorders; Addiction (Berridge, K.C. (28) 309)

Heme
Poly(ADP-ribose) polymerase; Neurotoxicity; PDZ domain; Protein kinase C; Bilirubin (Snyder, S.H. (26) 167)

Hippocampus
Neocortex; Glutamate receptor; GABA receptor; Synapse; Neurotransmission (Somogyi, P. (26) 113)

Synapses; Plasticity; Long-term potentiation; Learning (Andersen, P. (26) 353)

Lead poisoning; Child; Neurotoxicity; Prefrontal cortex; Cerebellum (Finkelstein, Y. (27) 168)

Homeodomain
Neural development; Cell adhesion; Segmentation; Gene regulation; Paired domain; Transcription (Edelman, G.M. (26) 337)

Human
Vestibular–visual–somatosensory interaction; Postural control; Coordinate transformation; Biomechanics; Microgravity (Mergner, T. (28) 118)

Sensorimotor integration; Adaptation; Arm movement; Microgravity (Bock, O. (28) 155)

Microgravity; Spatial orientation; Illusion (Glasauer, S. (28) 185)

Weightlessness; Symmetry; Mental rotation; Orientation; Reference frame (Leone, G. (28) 203)

Human cerebral cortex
Computer; Field; Parallel (Roland, P.E. (26) 87)

Human motor behaviour
Gravity; Laws of motion (McIntyre, J. (28) 143)

6-hydroxydopamine
Neostriatum; Nucleus accumbens; Substantia nigra; Tegmentum; Mesolimbic; Nigrostriatal; Mesotelencephalic mesostriatal; Dopamine; Lateral hypothalamus; Brain; Reinforcement; Motivation; Self-administration; Conditioning; Reward; Emotion; Palatability (Berridge, K.C. (28) 309)

Hypomyelination
Neuroglia; Oligodendrocyte; Astrocyte; Microglia; Jimpy; PLP; Glial development (Vela, J.M. (26) 29)

Hypothalamus
Periventricular zone; Paraventricular; Preoptic (Thompson, R.H. (27) 89)

Parkinson's disease; Schizophrenia; Dopamine; Catecholamines; Neuropsychiatric disease; Orphan neurones; Lewy body; Neuroaxonal dystrophy; LIF spots; Amine accumulation (Willis, G.L. (27) 177)

I

IGF-I
NGF; BDNF; NT-3; GDNF; TGF-α; trk Receptor; Neurodegeneration; Neurotrophin (Connor, B. (27) 1)

Illusion
Microgravity; Spatial orientation; Human (Glasauer, S. (28) 185)

Imaging
Magnetic; Memory; Brain (Tagaris, G.A. (26) 106)

Ingestion
Pleasure; Feeding; Food intake appetitive behavior; Consummatory behavior; Affect; Anhedonia; Hedonic; Diazepam; Conditioned taste aversion; Taste; Taste reactivity; Aphagia; Aversion; Appetite; Neurotransmitters; Substance-related disorders; Addiction (Berridge, K.C. (28) 309)

Inner ear
Postural control; Space sickness; Neuronal compensation (Anken, R.H. (28) 9)

Inositol 1,4,5-trisphosphate receptor
Intracellular calcium mobilization; Transporter; Ca^{2+} wave; Mitochondrion; Mitochondrial impairment (Simpson, P.B. (26) 72)

Intercellular communication
Dopamine; Striatal lesions (Zoli, M. (26) 136)

Intercellular volume transmission
Molecular neuroscience; Electrical synapses; Gap junctions; Glia; Interneuronal communication (Dermietzel, R. (26) 176)

Interferon
Behavior; Endocrine; Opiate; Thermosensitive neuron; PNS; CNS; EEG; Evoked potential; Single ceil; Glucose sensitive neuron; Electrical activity (Dafny, N. (26) 1)

Interleukin receptors
Brain; Neurodegeneration; Localization; Transduction (Loddick, S.A. (26) 306)

Interneuronal communication
Molecular neuroscience; Electrical synapses; Gap junctions; Glia; Intercellular volume transmission (Dermietzel, R. (26) 176)

Intracellular calcium mobilization
Inositol 1,4,5-trisphosphate receptor; Transporter; Ca^{2+} wave; Mitochondrion; Mitochondrial impairment (Simpson, P.B. (26) 72)

Intracellular signal transduction
Glutamate receptors; Visual information; Visual contrast; Calcium oscillation; Protein phosphorylation (Nakanishi, S. (26) 230)

Intralaminar nucleus
Striatum; Pallidum; Substantia nigra; Ventral tier; Motor function; Segmental development; Evolution; Neurotransmitter (Reiner, A. (28) 235)

Ion channels
Locomotion; Networks; Glycine; Glutamate; Tachykinin; Modellin (Grillner, S. (26) 184)

J

Jimpy
Neuroglia; Oligodendrocyte; Astrocyte; Microglia; Hypomyelination; PLP; Glial development (Vela, J.M. (26) 29)

Jun
Transcription factor; Fos; Krox; Zif; CREB; ATF; SRF; Neuron; Brain; Review (Herdegen, T. (28) 370)

K

Kinematics
Posture; Gravitational force; Sensorimotor adaptation; Central representation; Planning (Pozzo, T. (28) 92)

Knockout mouse
Dopamine; Dopamine transporter; Microdialysis; Volume transmission; Voltammetry (Gainetdinov, R.R. (26) 148)

Transgenic mouse; Viral vector; Neurite outgrowth; Neuronal regeneration; Axon guidance (Holtmaat, A.J.G.D. (26) 43)

Krox
Transcription factor; Jun; Fos; Zif; CREB; ATF; SRF; Neuron; Brain; Review (Herdegen, T. (28) 370)

L

Lactotransferrin receptor
Melanotransferrin; Ceruloplasmin; Divalent cation transporter; Brain iron accumulation; Neurodegenerative disease (Qian, Z.M. (27) 257)

Lamotrigine
Sodium channel; Antiepileptic drug; Phenytoin; Carbamazepine; Valproate; Topiramate (Ragsdale, D.S. (26) 16)

Lateral hypothalamus
Neostriatum; Nucleus accumbens; Substantia nigra; Tegmentum; Mesolimbic; Nigrostriatal; Mesotelencephalic mesostriatal; Dopamine; 6-hydroxydopamine; Brain; Reinforcement; Motivation; Self-administration; Conditioning; Reward; Emotion; Palatability (Berridge, K.C. (28) 309)

Laws of motion
Gravity; Human motor behaviour (McIntyre, J. (28) 143)

Layer 6 cell
Vibrissal sensory system; Corticothalamic feedback; Thalamocortical projection; Thalamic relay cell; Reciprocity (Deschênes, M. (28) 286)

Lead poisoning
Child; Neurotoxicity; Hippocampus; Prefrontal cortex; Cerebellum (Finkelstein, Y. (27) 168)

Learning
Nicotinic receptor; Structure; Reinforcement (Changeux, J.-P. (26) 198)

Synapses; Plasticity; Hippocampus; Long-term potentiation (Andersen, P. (26) 353)

Lewy body
Parkinson's disease; Schizophrenia; Dopamine; Catecholamines; Neuropsychiatric disease; Orphan neurones; Neuroaxonal dystrophy; LIF spots; Amine accumulation; Hypothalamus (Willis, G.L. (27) 177)

LIF spots
Parkinson's disease; Schizophrenia; Dopamine; Catecholamines; Neuropsychiatric disease; Orphan neurones; Lewy body; Neuroaxonal dystrophy; Amine accumulation; Hypothalamus (Willis, G.L. (27) 177)

Localization
Interleukin receptors; Brain; Neurodegeneration; Transduction (Loddick, S.A. (26) 306)

Locomotion
Ion channels; Networks; Glycine; Glutamate; Tachykinin; Modellin (Grillner, S. (26) 184)

Critical period; Microgravity (Walton, K. (28) 25)

Posture; Gravity; Descending pathway; Spinal network (Clarac, F. (28) 35)

Locomotor
Posture; Motion perception; Space motion sickness; Space flight (Reschke, M.F. (28) 102)

Long-term potentiation
Postsynaptic density; Protein phosphorylation; Protein kinases; Ras; Rac (Kennedy, M.B. (26) 243)

Synapses; Plasticity; Hippocampus; Learning (Andersen, P. (26) 353)

Low density lipoprotein receptor related protein
Apolipoprotein E; Alzheimer's disease; Brain; Low density lipoprotein receptor; Apolipoprotein J; Apolipoprotein D; Very low density lipoprotein receptor; Apolipoprotein E receptor 2; Neuronal plasticity; Cholinergic dysfunction (Beffert, U. (27) 119)

Low density lipoprotein receptor
Apolipoprotein E; Alzheimer's disease; Brain; Low density lipoprotein receptor related protein; Apolipoprotein J; Apolipoprotein D; Very low density lipoprotein receptor; Apolipoprotein E receptor 2; Neuronal plasticity; Cholinergic dysfunction (Beffert, U. (27) 119)

M

Magnetic
Imaging; Memory; Brain (Tagaris, G.A. (26) 106)

Marginal zone
Cajal–Retzius cell; Subplate; Pioneer neuron; Cerebral cortex; Development; Evolution (Supèr, H. (27) 40)

Melanotransferrin
Lactotransferrin receptor; Ceruloplasmin; Divalent cation transporter; Brain iron accumulation; Neurodegenerative disease (Qian, Z.M. (27) 257)

Membrane
Adenosine receptors; Dopamine receptors; Receptor–receptor interactions; Basal ganglia (Fuxe, K. (26) 258)

Memory
Magnetic; Imaging; Brain (Tagaris, G.A. (26) 106)

Memory consolidation
Protein kinase A; Memory suppression; Behavior (Abel, T. (26) 360)

Memory suppression
Protein kinase A; Memory consolidation; Behavior (Abel, T. (26) 360)

Mental performance
Spaceflight; Microgravity; Tracking; Dual-task; Cognitive processes (Manzey, D. (28) 215)

Mental rotation
Humans; Weightlessness; Symmetry; Orientation; Reference frame (Leone, G. (28) 203)

Mesolimbic
Neostriatum; Nucleus accumbens; Substantia nigra; Tegmentum; Nigrostriatal; Mesotelencephalic mesostriatal; Dopamine; 6-hydroxydopamine; Lateral hypothalamus; Brain; Reinforcement; Motivation; Self-administration; Conditioning; Reward; Emotion; Palatability (Berridge, K.C. (28) 309)

Mesotelencephalic mesostriatal
Neostriatum; Nucleus accumbens; Substantia nigra; Tegmentum; Mesolimbic; Nigrostriatal; Dopamine; 6-hydroxydopamine; Lateral hypothalamus; Brain; Reinforcement; Motivation; Self-administration; Conditioning; Reward; Emotion; Palatability (Berridge, K.C. (28) 309)

Microdialysis
Dopamine; Dopamine transporter; Knockout mice; Volume transmission; Voltammetry (Gainetdinov, R.R. (26) 148)

Microglia
Neuroglia; Oligodendrocyte; Astrocyte; Hypomyelination; Jimpy; PLP; Glial development (Vela, J.M. (26) 29)

Microgravity
Critical period; Locomotion (Walton, K. (28) 25)

Spaceflight; Otolith organ; Sympathetic nervous system (Yates, B.J. (28) 73)

Posture; Movement; Coordination (Massion, J. (28) 83)

Vestibular–visual–somatosensory interaction; Postural control; Coordinate transformation; Biomechanics; Human (Mergner, T. (28) 118)

Force; Position; Muscle; Sensorimotor (Gielen, C.C.A.M. (28) 136)

Human; Sensorimotor integration; Adaptation; Arm movement (Bock, O. (28) 155)

Vestibulo-ocular reflex; Otolith; Spatial orientation (Clément, G. (28) 161)

Three-dimensional vestibulo-ocular reflex; Otolith–ocular reflex; Spatial orientation; Ocular torsion; Eye movement measurement (Clarke, A.H. (28) 173)

Spatial orientation; Human; Illusion (Glasauer, S. (28) 185)

Spaceflight; Mental performance; Tracking; Dual-task; Cognitive processes (Manzey, D. (28) 215)

Mind
Consciousness; Brain; Neurobiology (Searle, J.R. (26) 379)

Mitochondrial impairment
Intracellular calcium mobilization; Inositol 1,4,5-trisphosphate receptor; Transporter; Ca^{2+} wave; Mitochondrion (Simpson, P.B. (26) 72)

Mitochondrion
Intracellular calcium mobilization; Inositol 1,4,5-trisphosphate receptor; Transporter; Ca^{2+} wave; Mitochondrial impairment (Simpson, P.B. (26) 72)

Modellin
Locomotion; Ion channels; Networks; Glycine; Glutamate; Tachykinin (Grillner, S. (26) 184)

Molecular neurobiology
Reeler; Neuronal migration; Cortex; Cerebellum; Genetics (Curran, T. (26) 285)

Molecular neuroscience
Electrical synapses; Gap junctions; Glia; Intercellular volume transmission; Interneuronal communication (Dermietzel, R. (26) 176)

Monkey
Space flight; Video-tracking; Attention; Posterior parietal electrocorticogram; Frequency analysis (Graille, C. (28) 52)

Motion perception
Posture; Locomotor; Space motion sickness; Space flight (Reschke, M.F. (28) 102)

Motivation
Neostriatum; Nucleus accumbens; Substantia nigra; Tegmentum; Mesolimbic; Nigrostriatal; Mesotelencephalic mesostriatal; Dopamine; 6-hydroxydopamine; Lateral hypothalamus; Brain; Reinforcement; Self-administration; Conditioning; Reward; Emotion; Palatability (Berridge, K.C. (28) 309)

Motor function
Striatum; Pallidum; Substantia nigra; Intralaminar nucleus; Ventral tier; Segmental development; Evolution; Neurotransmitter (Reiner, A. (28) 235)

Movement
Posture; Coordination; Microgravity (Massion, J. (28) 83)

Reaching; Trajectory; Adaptation; Coriolis force; Equilibrium point theory (Lackner, J.R. (28) 194)

Muscle
Force; Position; Microgravity; Sensorimotor (Gielen, C.C.A.M. (28) 136)

Myosin V
Brain; Organelle motility; ER; Axonal transport; Squid axoplasm; Actin filament; Synaptic vesicle; Ataxia (Langford, G.M. (28) 1)

N

Neocortex
Hippocampus; Glutamate receptor; GABA receptor; Synapse; Neurotransmission (Somogyi, P. (26) 113)

Neostriatum
Nucleus accumbens; Substantia nigra; Tegmentum; Mesolimbic; Nigrostriatal; Mesotelencephalic mesostriatal; Dopamine; 6-hydroxydopamine; Lateral hypothalamus; Brain; Reinforcement; Motivation; Self-administration; Conditioning; Reward; Emotion; Palatability (Berridge, K.C. (28) 309)

Networks
Locomotion; Ion channels; Glycine; Glutamate; Tachykinin; Modellin (Grillner, S. (26) 184)

Neural development
Cell adhesion; Segmentation; Gene regulation; Homeodomain; Paired domain; Transcription (Edelman, G.M. (26) 337)

Neurite outgrowth
Transgenic mouse; Knockout mouse; Viral vector; Neuronal regeneration; Axon guidance (Holtmaat, A.J.G.D. (26) 43)

Neuroaxonal dystrophy
Parkinson's disease; Schizophrenia; Dopamine; Catecholamines; Neuropsychiatric disease; Orphan neurones; Lewy body; LIF spots; Amine accumulation; Hypothalamus (Willis, G.L. (27) 177)

Neurobiology
Consciousness; Mind; Brain (Searle, J.R. (26) 379)

Neuroblastoma
Alcohol; Astrocytoma; Cancer; Cell culture; Cell cycle; Cell proliferation; Fetal alcohol syndrome; Glia; Neuron (Luo, J. (27) 157)

Neurodegeneration
Interleukin receptors; Brain; Localization; Transduction (Loddick, S.A. (26) 306)

NGF; BDNF; NT-3; GDNF; IGF-I; TGF-α; trk Receptor; Neurotrophin (Connor, B. (27) 1)

Neurodegenerative disease
Lactotransferrin receptor; Melanotransferrin; Ceruloplasmin; Divalent cation transporter; Brain iron accumulation (Qian, Z.M. (27) 257)

Neurogenesis
CNS development; Sensory system development; Neuronal differentiation; Glial differentiation; Gravity (Duprat, A.-M. (28) 19)

Neuroglia
Oligodendrocyte; Astrocyte; Microglia; Hypomyelination; Jimpy; PLP; Glial development (Vela, J.M. (26) 29)

Neurologic disorder
Cytokine; Transgenic; Astrocyte (Campbell, I.L. (26) 327)

Neuron
Alcohol; Astrocytoma; Cancer; Cell culture; Cell cycle; Cell proliferation; Fetal alcohol syndrome; Glia; Neuroblastoma (Luo, J. (27) 157)

Transcription factor; Jun; Fos; Krox; Zif; CREB; ATF; SRF; Brain; Review (Herdegen, T. (28) 370)

Neuronal compensation
Postural control; Space sickness; Inner ear (Anken, R.H. (28) 9)

Neuronal differentiation
Neurogenesis; CNS development; Sensory system development; Glial differentiation; Gravity (Duprat, A.-M. (28) 19)

Neuronal migration
Reeler; Cortex; Cerebellum; Molecular neurobiology; Genetics (Curran, T. (26) 285)

Neuronal plasticity
Apolipoprotein E; Alzheimer's disease; Brain; Low density lipoprotein receptor; Low density lipoprotein receptor related protein; Apolipoprotein J; Apolipoprotein D; Very low density lipoprotein receptor; Apolipoprotein E receptor 2; Cholinergic dysfunction (Beffert, U. (27) 119)

Neuronal regeneration
Transgenic mouse; Knockout mouse; Viral vector; Neurite outgrowth; Axon guidance (Holtmaat, A.J.G.D. (26) 43)

Neuropsychiatric disease
Parkinson's disease; Schizophrenia; Dopamine; Catecholamines; Orphan neurones; Lewy body; Neuroaxonal dystrophy; LIF spots; Amine accumulation; Hypothalamus (Willis, G.L. (27) 177)

Neurotoxicity
Heme; Poly(ADP-ribose) polymerase; PDZ domain; Protein kinase C; Bilirubin (Snyder, S.H. (26) 167)

Lead poisoning; Child; Hippocampus; Prefrontal cortex; Cerebellum (Finkelstein, Y. (27) 168)

Neurotransmission
Neocortex; Hippocampus; Glutamate receptor; GABA receptor; Synapse (Somogyi, P. (26) 113)

Neurotransmitter
Anorexia; Cerebral blood vessels; Dorsal root ganglia; Food intake; Prion (Hökfelt, T. (26) 154)

Striatum; Pallidum; Substantia nigra; Intralaminar nucleus; Ventral tier; Motor function; Segmental development; Evolution (Reiner, A. (28) 235)

Pleasure; Feeding; Food intake appetitive behavior; Consummatory behavior; Affect; Anhedonia; Hedonic; Diazepam; Conditioned taste aversion; Taste; Taste reactivity; Aphagia; Aversion; Appetite; Ingestion; Substance-related disorders; Addiction (Berridge, K.C. (28) 309)

Neurotrophic
NGF; Signal transduction; Death; Receptor (Chao, M. (26) 295)

Neurotrophin
NGF; BDNF; NT-3; GDNF; IGF-I; TGF-α; trk Receptor; Neurodegeneration (Connor, B. (27) 1)

NGF
Neurotrophic; Signal transduction; Death; Receptor (Chao, M. (26) 295)

BDNF; NT-3; GDNF; IGF-I; TGF-α; trk Receptor; Neurodegeneration; Neurotrophin (Connor, B. (27) 1)

Nicotinic receptor
Structure; Learning; Reinforcement (Changeux, J.-P. (26) 198)

Nigrostriatal
Neostriatum; Nucleus accumbens; Substantia nigra; Tegmentum; Mesolimbic; Mesotelencephalic mesostriatal; Dopamine; 6-hydroxydopamine; Lateral hypothalamus; Brain; Reinforcement; Motivation; Self-administration; Conditioning; Reward; Emotion; Palatability (Berridge, K.C. (28) 309)

NT-3
NGF; BDNF; GDNF; IGF-I; TGF-α; trk Receptor; Neurodegeneration; Neurotrophin (Connor, B. (27) 1)

Nucleus accumbens
Neostriatum; Substantia nigra; Tegmentum; Mesolimbic; Nigrostriatal; Mesotelencephalic mesostriatal; Dopamine; 6-hydroxydopamine; Lateral hypothalamus; Brain; Reinforcement; Motivation; Self-administration; Conditioning; Reward; Emotion; Palatability (Berridge, K.C. (28) 309)

O

Ocular torsion
Three-dimensional vestibulo-ocular reflex; Otolith–ocular reflex; Spatial orientation; Microgravity; Eye movement measurement (Clarke, A.H. (28) 173)

Oligodendrocyte
Neuroglia; Astrocyte; Microglia; Hypomyelination; Jimpy; PLP; Glial development (Vela, J.M. (26) 29)

Opiate
Interferon; Behavior; Endocrine; Thermosensitive neuron; PNS; CNS; EEG; Evoked potential; Single cell; Glucose sensitive neuron; Electrical activity (Dafny, N. (26) 1)

Organelle motility
Myosin V; Brain; ER; Axonal transport; Squid axoplasm; Actin filament; Synaptic vesicle; Ataxia (Langford, G.M. (28) 1)

Orientation
Humans; Weightlessness; Symmetry; Mental rotation; Reference frame (Leone, G. (28) 203)

Orphan neurones
Parkinson's disease; Schizophrenia; Dopamine; Catecholamines; Neuropsychiatric disease; Lewy body; Neuroaxonal dystrophy; LIF spots; Amine accumulation; Hypothalamus (Willis, G.L. (27) 177)

Otolith
Vestibulo-ocular reflex; Spatial orientation; Microgravity (Clément, G. (28) 161)

Otolith–ocular reflex
Three-dimensional vestibulo-ocular reflex; Spatial orientation; Microgravity; Ocular torsion; Eye movement measurement (Clarke, A.H. (28) 173)

Otolith organ
Microgravity; Spaceflight; Sympathetic nervous system (Yates, B.J. (28) 73)

P

Paired domain
Neural development; Cell adhesion; Segmentation; Gene regulation; Homeodomain; Transcription (Edelman, G.M. (26) 337)

Palatability
Neostriatum; Nucleus accumbens; Substantia nigra; Tegmentum; Mesolimbic; Nigrostriatal; Mesotelencephalic mesostriatal; Dopamine; 6-hydroxydopamine; Lateral hypothalamus; Brain; Reinforcement; Motivation; Self-administration; Conditioning; Reward; Emotion (Berridge, K.C. (28) 309)

Pallidum
Striatum; Substantia nigra; Intralaminar nucleus; Ventral tier; Motor function; Segmental development; Evolution; Neurotransmitter (Reiner, A. (28) 235)

Parallel
Human cerebral cortex; Computer; Field (Roland, P.E. (26) 87)

Paraventricular
Hypothalamus; Periventricular zone; Preoptic (Thompson, R.H. (27) 89)

Parkinson's disease
Dopamine D_3 receptor; D_1/D_3 receptor interactions; Behavioral sensitization; Schizophrenia; Antipsychotics (Schwartz, J.-C. (26) 236)

Schizophrenia; Dopamine; Catecholamines; Neuropsychiatric disease; Orphan neurones; Lewy body; Neuroaxonal dystrophy; LIF spots; Amine accumulation; Hypothalamus (Willis, G.L. (27) 177)

Pattern generation
Stick insect; Walking (Bässler, U. (27) 65)

PDZ domain
Heme; Poly(ADP-ribose) polymerase; Neurotoxicity; Protein kinase C; Bilirubin (Snyder, S.H. (26) 167)

Periventricular zone
Hypothalamus; Paraventricular; Preoptic (Thompson, R.H. (27) 89)

Phenytoin
Sodium channel; Antiepileptic drug; Carbamazepine; Valproate; Lamotrigine; Topiramate (Ragsdale, D.S. (26) 16)

Pioneer neuron
Cajal–Retzius cell; Marginal zone; Subplate; Cerebral cortex; Development; Evolution (Supèr, H. (27) 40)

Planning
Posture; Gravitational force; Sensorimotor adaptation; Central representation; Kinematics (Pozzo, T. (28) 92)

Plasticity
Synapses; Hippocampus; Long-term potentiation; Learning (Andersen, P. (26) 353)

Pleasure
Feeding; Food intake appetitive behavior; Consummatory behavior; Affect; Anhedonia; Hedonic; Diazepam; Conditioned taste aversion; Taste; Taste reactivity; Aphagia; Aversion; Appetite; Ingestion; Neurotransmitters; Substance-related disorders; Addiction (Berridge, K.C. (28) 309)

PLP
Neuroglia; Oligodendrocyte; Astrocyte; Microglia; Hypomyelination; Jimpy; Glial development (Vela, J.M. (26) 29)

PNS
Interferon; Behavior; Endocrine; Opiate; Thermosensitive neuron; CNS; EEG; Evoked potential; Single cell; Glucose sensitive neuron; Electrical activity (Dafny, N. (26) 1)

Poly(ADP-ribose) polymerase
Heme; Neurotoxicity; PDZ domain; Protein kinase C; Bilirubin (Snyder, S.H. (26) 167)

Position
Force; Muscle; Microgravity; Sensorimotor (Gielen, C.C.A.M. (28) 136)

Posterior parietal electrocorticogram
Space flight; Video-tracking; Attention; Frequency analysis; Monkey (Graille, C. (28) 52)

Postsynaptic density
Protein phosphorylation; Protein kinases; Ras; Rac; Long-term potentiation (Kennedy, M.B. (26) 243)

Postural control
Space sickness; Neuronal compensation; Inner ear (Anken, R.H. (28) 9)

Vestibular–visual–somatosensory interaction; Coordinate transformation; Biomechanics; Microgravity; Human (Mergner, T. (28) 118)

Posture
Locomotion; Gravity; Descending pathway; Spinal network (Clarac, F. (28) 35)

Movement; Coordination; Microgravity (Massion, J. (28) 83)

Gravitational force; Sensorimotor adaptation; Central representation; Planning; Kinematics (Pozzo, T. (28) 92)

Locomotor; Motion perception; Space motion sickness; Space flight (Reschke, M.F. (28) 102)

Prefrontal cortex
Lead poisoning; Child; Neurotoxicity; Hippocampus; Cerebellum (Finkelstein, Y. (27) 168)

Preoptic
Hypothalamus; Periventricular zone; Paraventricular (Thompson, R.H. (27) 89)

Prion
Anorexia; Cerebral blood vessels; Dorsal root ganglia; Food intake; Neurotransmitters (Hökfelt, T. (26) 154)

Protein kinase A
Memory consolidation; Memory suppression; Behavior (Abel, T. (26) 360)

Protein kinase C
Heme; Poly(ADP-ribose) polymerase; Neurotoxicity; PDZ domain; Bilirubin (Snyder, S.H. (26) 167)

Protein kinases
Postsynaptic density; Protein phosphorylation; Ras; Rac; Long-term potentiation (Kennedy, M.B. (26) 243)

Protein phosphorylation
Glutamate receptors; Visual information; Visual contrast; Intracellular signal transduction; Calcium oscillation (Nakanishi, S. (26) 230)

Postsynaptic density; Protein kinases; Ras; Rac; Long-term potentiation (Kennedy, M.B. (26) 243)

R

Rac
Postsynaptic density; Protein phosphorylation; Protein kinases; Ras; Long-term potentiation (Kennedy, M.B. (26) 243)

Ras
Postsynaptic density; Protein phosphorylation; Protein kinases; Rac; Long-term potentiation (Kennedy, M.B. (26) 243)

Reaching
Movement; Trajectory; Adaptation; Coriolis force; Equilibrium point theory (Lackner, J.R. (28) 194)

Receptor
NGF; Neurotrophic; Signal transduction; Death (Chao, M. (26) 295)

Receptor–receptor interactions
Adenosine receptors; Dopamine receptors; Basal ganglia; Membrane (Fuxe, K. (26) 258)

Reciprocity
Vibrissal sensory system; Corticothalamic feedback; Thalamocortical projection; Layer 6 cell; Thalamic relay cell (Deschênes, M. (28) 286)

Reeler
Neuronal migration; Cortex; Cerebellum; Molecular neurobiology; Genetics (Curran, T. (26) 285)

Reference frame
Humans; Weightlessness; Symmetry; Mental rotation; Orientation (Leone, G. (28) 203)

Reinforcement
Nicotinic receptor; Structure; Learning (Changeux, J.-P. (26) 198)

Neostriatum; Nucleus accumbens; Substantia nigra; Tegmentum; Mesolimbic; Nigrostriatal; Mesotelencephalic mesostriatal; Dopamine; 6-hydroxydopamine; Lateral hypothalamus; Brain; Motivation; Self-administration; Conditioning; Reward; Emotion; Palatability (Berridge, K.C. (28) 309)

Review
Transcription factor; Jun; Fos; Krox; Zif; CREB; ATF; SRF; Neuron; Brain (Herdegen, T. (28) 370)

Reward
Neostriatum; Nucleus accumbens; Substantia nigra; Tegmentum; Mesolimbic; Nigrostriatal; Mesotelencephalic mesostriatal; Dopamine; 6-hydroxydopamine; Lateral hypothalamus; Brain; Reinforcement; Motivation; Self-administration; Conditioning; Emotion; Palatability (Berridge, K.C. (28) 309)

RNA-dependent adenosine deaminases
Fast excitatory neurotransmission; AMPA, NMDA and kainate receptors; Ca^{2+} permeability of GluR channels; Epilepsy; Excitotoxicity (Seeburg, P.H. (26) 217)

Rodent
Aging; Acetylcholine; Cortex; Basal forebrain (Sarter, M. (27) 143)

S

Schizophrenia
Dopamine D_3 receptor; D_1/D_3 receptor interactions; Behavioral sensitization; Antipsychotics; Parkinson's disease (Schwartz, J.-C. (26) 236)

Parkinson's disease; Dopamine; Catecholamines; Neuropsychiatric disease; Orphan neurones; Lewy body; Neuroaxonal dystrophy; LIF spots; Amine accumulation; Hypothalamus (Willis, G.L. (27) 177)

Segmental development
Striatum; Pallidum; Substantia nigra; Intralaminar nucleus; Ventral tier; Motor function; Evolution; Neurotransmitter (Reiner, A. (28) 235)

Segmentation
Neural development; Cell adhesion; Gene regulation; Homeodomain; Paired domain; Transcription (Edelman, G.M. (26) 337)

Self-administration
Neostriatum; Nucleus accumbens; Substantia nigra; Tegmentum; Mesolimbic; Nigrostriatal; Mesotelencephalic mesostriatal; Dopamine; 6-hydroxydopamine; Lateral hypothalamus; Brain; Reinforcement; Motivation; Conditioning; Reward; Emotion; Palatability (Berridge, K.C. (28) 309)

Sensorimotor
Force; Position; Muscle; Microgravity (Gielen, C.C.A.M. (28) 136)

Sensorimotor adaptation
Posture; Gravitational force; Central representation; Planning; Kinematics (Pozzo, T. (28) 92)

Sensorimotor integration
Vestibular system; Space flight; Adaptation (Correia, M.J. (28) 61)

Human; Adaptation; Arm movement; Microgravity (Bock, O. (28) 155)

Sensory system development
Neurogenesis; CNS development; Neuronal differentiation; Glial differentiation; Gravity (Duprat, A.-M. (28) 19)

Signal transduction
NGF; Neurotrophic; Death; Receptor (Chao, M. (26) 295)

Single cell
Interferon; Behavior; Endocrine; Opiate; Thermosensitive neuron; PNS; CNS; EEG; Evoked potential; Glucose sensitive neuron; Electrical activity (Dafny, N. (26) 1)

Sodium channel
Antiepileptic drug; Phenytoin; Carbamazepine; Valproate; Lamotrigine; Topiramate (Ragsdale, D.S. (26) 16)

Space flight
Video-tracking; Attention; Posterior parietal electrocorticogram; Frequency analysis; Monkey (Graille, C. (28) 52)

Vestibular system; Adaptation; Sensorimotor integration (Correia, M.J. (28) 61)

Heart rate variability; Baroreflex; Head-down bed rest (Fortrat, J.-O. (28) 66)

Space flight
Microgravity; Otolith organ; Sympathetic nervous system (Yates, B.J. (28) 73)

Posture; Locomotor; Motion perception; Space motion sickness (Reschke, M.F. (28) 102)

Microgravity; Mental performance; Tracking; Dual-task; Cognitive processes (Manzey, D. (28) 215)

Space motion sickness
Posture; Locomotor; Motion perception; Space flight (Reschke, M.F. (28) 102)

Space sickness
Postural control; Neuronal compensation; Inner ear (Anken, R.H. (28) 9)

Spatial orientation
Vestibulo-ocular reflex; Otolith; Microgravity (Clément, G. (28) 161)

Three-dimensional vestibulo-ocular reflex; Otolith–ocular reflex; Microgravity; Ocular torsion; Eye movement measurement (Clarke, A.H. (28) 173)

Microgravity; Human; Illusion (Glasauer, S. (28) 185)

Spinal network
Locomotion; Posture; Gravity; Descending pathway (Clarac, F. (28) 35)

Squid axoplasm
Myosin V; Brain; Organelle motility; ER; Axonal transport; Actin filament; Synaptic vesicle; Ataxia (Langford, G.M. (28) 1)

SRF
Transcription factor; Jun; Fos; Krox; Zif; CREB; ATF; Neuron; Brain; Review (Herdegen, T. (28) 370)

Stick insect
Pattern generation; Walking (Bässler, U. (27) 65)

Striatal lesions
Intercellular communication; Dopamine (Zoli, M. (26) 136)

Striatum
Pallidum; Substantia nigra; Intralaminar nucleus; Ventral tier; Motor function; Segmental development; Evolution; Neurotransmitter (Reiner, A. (28) 235)

Structure
Nicotinic receptor; Learning; Reinforcement (Changeux, J.-P. (26) 198)

Subplate
Cajal–Retzius cell; Marginal zone; Pioneer neuron; Cerebral cortex; Development; Evolution (Supèr, H. (27) 40)

Substance-related disorders
Pleasure; Feeding; Food intake appetitive behavior; Consummatory behavior; Affect; Anhedonia; Hedonic; Diazepam; Conditioned taste aversion; Taste; Taste reactivity; Aphagia; Aversion; Appetite; Ingestion; Neurotransmitters; Addiction (Berridge, K.C. (28) 309)

Substantia nigra
Striatum; Pallidum; Intralaminar nucleus; Ventral tier; Motor function; Segmental development; Evolution; Neurotransmitter (Reiner, A. (28) 235)

Neostriatum; Nucleus accumbens; Tegmentum; Mesolimbic; Nigrostriatal; Mesotelencephalic mesostriatal; Dopamine; 6-hydroxydopamine; Lateral hypothalamus; Brain; Reinforcement; Motivation; Self-administration; Conditioning; Reward; Emotion; Palatability (Berridge, K.C. (28) 309)

Symmetry
Humans; Weightlessness; Mental rotation; Orientation; Reference frame (Leone, G. (28) 203)

Sympathetic nervous system
Microgravity; Spaceflight; Otolith organ (Yates, B.J. (28) 73)

Synapse
Neocortex; Hippocampus; Glutamate receptor; GABA receptor; Neurotransmission (Somogyi, P. (26) 113)

Plasticity; Hippocampus; Long-term potentiation; Learning (Andersen, P. (26) 353)

Synaptic vesicle
Myosin V; Brain; Organelle motility; ER; Axonal transport; Squid axoplasm; Actin filament; Ataxia (Langford, G.M. (28) 1)

Synaptogenesis
Vestibular macula; Altered gravity; Critical period (Ross, M.D. (28) 44)

T

Tachykinin
Locomotion; Ion channels; Networks; Glycine; Glutamate; Modellin (Grillner, S. (26) 184)

Taste
Pleasure; Feeding; Food intake appetitive behavior; Consummatory behavior; Affect; Anhedonia; Hedonic; Diazepam; Conditioned taste aversion; Taste reactivity; Aphagia; Aversion; Appetite; Ingestion; Neurotransmitters; Substance-related disorders; Addiction (Berridge, K.C. (28) 309)

Taste reactivity
Pleasure; Feeding; Food intake appetitive behavior; Consummatory behavior; Affect; Anhedonia; Hedonic; Diazepam; Conditioned taste aversion; Taste; Aphagia; Aversion; Appetite; Ingestion; Neurotransmitters; Substance-related disorders; Addiction (Berridge, K.C. (28) 309)

Tegmentum
Neostriatum; Nucleus accumbens; Substantia nigra; Mesolimbic; Nigrostriatal; Mesotelencephalic mesostriatal; Dopamine; 6-hydroxydopamine; Lateral hypothalamus; Brain; Reinforcement; Motivation; Self-administration; Conditioning; Reward; Emotion; Palatability (Berridge, K.C. (28) 309)

TGF-α
NGF; BDNF; NT-3; GDNF; IGF-I; trk Receptor; Neurodegeneration; Neurotrophin (Connor, B. (27) 1)

Thalamic relay cell
Vibrissal sensory system; Corticothalamic feedback; Thalamocortical projection; Layer 6 cell; Reciprocity (Deschênes, M. (28) 286)

Thalamocortical projection
Vibrissal sensory system; Corticothalamic feedback; Layer 6 cell; Thalamic relay cell; Reciprocity (Deschênes, M. (28) 286)

Thermosensitive neuron
Interferon; Behavior; Endocrine; Opiate; PNS; CNS; EEG; Evoked potential; Single cell; Glucose sensitive neuron; Electrical activity (Dafny, N. (26) 1)

Three-dimensional vestibulo-ocular reflex
Otolith–ocular reflex; Spatial orientation; Microgravity; Ocular torsion; Eye movement measurement (Clarke, A.H. (28) 173)

Topiramate
Sodium channel; Antiepileptic drug; Phenytoin; Carbamazepine; Valproate; Lamotrigine (Ragsdale, D.S. (26) 16)

Tracking
Spaceflight; Microgravity; Mental performance; Dual-task; Cognitive processes (Manzey, D. (28) 215)

Trajectory
Reaching; Movement; Adaptation; Coriolis force; Equilibrium point theory (Lackner, J.R. (28) 194)

Transcription
Neural development; Cell adhesion; Segmentation; Gene regulation; Homeodomain; Paired domain (Edelman, G.M. (26) 337)

Transcription factor
Jun; Fos; Krox; Zif; CREB; ATF; SRF; Neuron; Brain; Review (Herdegen, T. (28) 370)

Transduction
Interleukin receptors; Brain; Neurodegeneration; Localization (Loddick, S.A. (26) 306)

Transgenic
Neurologic disorder; Cytokine; Astrocyte (Campbell, I.L. (26) 327)

Transgenic mouse
Knockout mouse; Viral vector; Neurite outgrowth; Neuronal regeneration; Axon guidance (Holtmaat, A.J.G.D. (26) 43)

Transporter
Intracellular calcium mobilization; Inositol 1,4,5-trisphosphate receptor; Ca^{2+} wave; Mitochondrion; Mitochondrial impairment (Simpson, P.B. (26) 72)

Traumatic brain injury
Complement; Anaphylatoxin; Chemotactic receptor (Stahel, P.F. (27) 243)

trk Receptor
NGF; BDNF; NT-3; GDNF; IGF-I; TGF-α; Neurodegeneration; Neurotrophin (Connor, B. (27) 1)

V

Valproate
Sodium channel; Antiepileptic drug; Phenytoin; Carbamazepine; Lamotrigine; Topiramate (Ragsdale, D.S. (26) 16)

Ventral tier
Striatum; Pallidum; Substantia nigra; Intralaminar nucleus; Motor function; Segmental development; Evolution; Neurotransmitter (Reiner, A. (28) 235)

Very low density lipoprotein receptor
Apolipoprotein E; Alzheimer's disease; Brain; Low density lipoprotein receptor; Low density lipoprotein receptor related protein; Apolipoprotein J; Apolipoprotein D; Apolipoprotein E receptor 2; Neuronal plasticity; Cholinergic dysfunction (Beffert, U. (27) 119)

Vestibular macula
Altered gravity; Critical period; Synaptogenesis (Ross, M.D. (28) 44)

Vestibular system
Space flight; Adaptation; Sensorimotor integration (Correia, M.J. (28) 61)

Vestibular–visual–somatosensory interaction
Postural control; Coordinate transformation; Biomechanics; Microgravity; Human (Mergner, T. (28) 118)

Vestibulo-ocular reflex
Otolith; Spatial orientation; Microgravity (Clément, G. (28) 161)

Vibrissal sensory system
Corticothalamic feedback; Thalamocortical projection; Layer 6 cell; Thalamic relay cell; Reciprocity (Deschênes, M. (28) 286)

Video-tracking
Space flight; Attention; Posterior parietal electrocorticogram; Frequency analysis; Monkey (Graille, C. (28) 52)

Viral vector
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Eye movement; Saccade; Express saccade; Reaction time (Fischer, B. (2) 47)

Apoptosis
TUNEL; Hoechst 33342; Axotomy (Whiteside, G. (2) 160)

APP isoform
β-Amyloid precursor protein; Antibody purification; Affinity chromatography; Amyloid β-protein; Alzheimer's disease (Jen, A. (2) 23)

Astrocytes
Mitochondria; Isolation; Neurons; Respiration (Almeida, A. (2) 209)

Cumene hydroperoxide; Glutathione; Hydrogen peroxide; Pentose phosphate pathway; Tertiary butylhydroperoxide (Dringen, R. (2) 223)

Axon
Amyloid precursor protein; Focal cerebral ischaemia; Rat (Yam, P.S. (2) 315)

Axonal tracing
Fluoro-Gold; Cholera toxin; BDA; HRP; V-VIP; Peroxidase; Neuroanatomy (Lanciego, J.L. (2) 323)

Axotomy
Apoptosis; TUNEL; Hoechst 33342 (Whiteside, G. (2) 160)

B

BDA
Axonal tracing; Fluoro-Gold; Cholera toxin; HRP; V-VIP; Peroxidase; Neuroanatomy (Lanciego, J.L. (2) 323)

Behavioral depression
Coping; Triadic design; Rat; Learned helplessness (Drugan, R.C. (2) 69)

Behavioural test
6-Hydroxydopamine; Parkinson's disease; Rotarod (Rozas, G. (2) 75)

Benzidine dihydrochloride
Developing method; Diaminobenzidine; Double immunocytochemistry; Electron microscopy; Pre-embedding (Marcos, P. (2) 1)

Blot analysis
Digoxigenin; Digoxin; Hapten-anti-hapten; Immunocytochemistry (Härtig, W. (2) 35)

Brain
Microinjection; Technique; Nervous system; Freely moving animal (Prokopenko, V.F. (2) 31)

Constitutive nitric oxide synthase; Nitrite; Ozone (Weih, M.K. (2) 175)

C

CAG triplets
Dynamic mutation; Polymerase chain reaction; Huntington disease (Čuljković, B. (2) 44)

Calretinin
CLSM; Dual immunofluorescence; Fluorophores; Carbocyanine dyes; Entorhinal cortex (Wouterlood, F.G. (2) 149)

Carbocyanine dyes
CLSM; Dual immunofluorescence; Calretinin; Fluorophores; Entorhinal cortex (Wouterlood, F.G. (2) 149)

Caudate-putamen
Immunocytochemistry; Digital image analysis; Image software; Immediate-early gene protein (Brown, H.E. (2) 264)

Cell-culture
Immunological assay; ELISA (Parnas, D. (2) 333)

Cerebral glucose metabolism
Functional brain imaging; Sleep; Positron emission tomography; Method (Nofzinger, E.A. (2) 191)

Cholera toxin
Axonal tracing; Fluoro-Gold; BDA; HRP; V-VIP; Peroxidase; Neuroanatomy (Lanciego, J.L. (2) 323)

Cholinergic differentiation
Neuroblastoma; Retinoic acid; Immunohistochemistry; Electroporation (Hill, D.P. (2) 183)

Chronic implantation
Stereotaxic surgery; Multiple brain microdialysis; Experimental brain surgery; Stereotaxic method (Parada, M.A. (2) 141)

CLSM
Dual immunofluorescence; Calretinin; Fluorophores; Carbocyanine dyes; Entorhinal cortex (Wouterlood, F.G. (2) 149)

Competitive RT-PCR
Neurite outgrowth; Hippocampal neuron; Neuron-specific growth-associated gene (Wang, W. (2) 199)

Serotonin; Tryptophan hydroxylase; mRNA; Thyroid C cell (Clark, M.S. (2) 273)

Concentric needle electrode
Microneurography; Single unit recording; Spike discrimination; Template matching; Peripheral nerve; Human (Hallin, R.G. (2) 120)

Conditioning taste aversion
Free-moving microdialysis; Neural transplantation; Gustatory cortex; Acetylcholine (Miranda, M.I. (2) 215)

Confocal microscopy
Fluorescence; Neuronal viability assay; Neuroprotection (Monette, R. (2) 99)

Lectin; Immunofluorescence; Mu opioid receptor; *N*-acetylgalactosamine; Perineuronal net (Bausch, S.B. (2) 286)

Constitutive nitric oxide synthase
Brain; Nitrite; Ozone (Weih, M.K. (2) 175)

Coping
Triadic design; Rat; Learned helplessness; Behavioral depression (Drugan, R.C. (2) 69)

Correlation analysis
Hippocampus; Multielectrode array; Organotypic long-term culture; Paired pulse facilitation; Photolithography; Rat; Plasticity (Egert, U. (2) 229)

Cumene hydroperoxide
Astrocytes; Glutathione; Hydrogen peroxide; Pentose phosphate pathway; Tertiary butylhydroperoxide (Dringen, R. (2) 223)

Cytoskeleton
Developmental neurobiology; Neurotransmitter; Neurotrophic factor; Regeneration; *Monodelphis domestica*; Mouse (Luque, J.M. (2) 165)

D

Developing method
Benzidine dihydrochloride; Diaminobenzidine; Double immunocytochemistry; Electron microscopy; Pre-embedding (Marcos, P. (2) 1)

Developmental neurobiology
Neurotransmitter; Neurotrophic factor; Cytoskeleton; Regeneration; *Monodelphis domestica*; Mouse (Luque, J.M. (2) 165)

Diaminobenzidine
Benzidine dihydrochloride; Developing method; Double immunocytochemistry; Electron microscopy; Pre-embedding (Marcos, P. (2) 1)

Digital image analysis
Immunocytochemistry; Caudate-putamen; Image software; Immediate-early gene protein (Brown, H.E. (2) 264)

Digoxigenin
Digoxin; Hapten-anti-hapten; Blot analysis; Immunocytochemistry (Härtig, W. (2) 35)

In situ hybridization; Northern blotting; Tumor necrosis factor-alpha; Interleukin-1 beta; Floating section (Meltzer, J.C. (2) 339)

Digoxin
Digoxigenin; Hapten-anti-hapten; Blot analysis; Immunocytochemistry (Härtig, W. (2) 35)

Double immunocytochemistry
Benzidine dihydrochloride; Developing method; Diaminobenzidine; Electron microscopy; Pre-embedding (Marcos, P. (2) 1)

Dual immunofluorescence
CLSM; Calretinin; Fluorophores; Carbocyanine dyes; Entorhinal cortex (Wouterlood, F.G. (2) 149)

Dynamic mutation
Polymerase chain reaction; Huntington disease; CAG triplets (Čuljković, B. (2) 44)

E

EEG monitoring
Epilepsy; Animal model (Bertram, E.H. (2) 85)

Electron microscopy
Benzidine dihydrochloride; Developing method; Diaminobenzidine; Double immunocytochemistry; Pre-embedding (Marcos, P. (2) 1)

Electrophoretical mobility shift assay
Synthetic oligonucleotide; Nuclear extract; Supershift assay (Kako, K. (2) 243)

Electroporation
Neuroblastoma; Cholinergic differentiation; Retinoic acid; Immunohistochemistry (Hill, D.P. (2) 183)

ELISA
Cell-culture; Immunological assay (Parnas, D. (2) 333)

Entorhinal cortex
CLSM; Dual immunofluorescence; Calretinin; Fluorophores; Carbocyanine dyes (Wouterlood, F.G. (2) 149)

Epilepsy
EEG monitoring; Animal model (Bertram, E.H. (2) 85)

Experimental brain surgery
Stereotaxic surgery; Multiple brain microdialysis; Chronic implantation; Stereotaxic method (Parada, M.A. (2) 141)

Express saccade
Eye movement; Saccade; Antisaccade; Reaction time (Fischer, B. (2) 47)

Eye movement
Saccade; Express saccade; Antisaccade; Reaction time (Fischer, B. (2) 47)

F

Floating section
In situ hybridization; Northern blotting; Tumor necrosis factor-alpha; Interleukin-1 beta; Digoxigenin (Meltzer, J.C. (2) 339)

Fluorescence
Confocal microscopy; Neuronal viability assay; Neuroprotection (Monette, R. (2) 99)

Fluoro-Gold
Axonal tracing; Cholera toxin; BDA; HRP; V-VIP; Peroxidase; Neuroanatomy (Lanciego, J.L. (2) 323)

Fluorophores
CLSM; Dual immunofluorescence; Calretinin; Carbocyanine dyes; Entorhinal cortex (Wouterlood, F.G. (2) 149)

Focal cerebral ischaemia
Amyloid precursor protein; Axon; Rat (Yam, P.S. (2) 315)

Freely moving animal
Microinjection; Technique; Nervous system; Brain (Prokopenko, V.F. (2) 31)

Free-moving microdialysis
Conditioning taste aversion; Neural transplantation; Gustatory cortex; Acetylcholine (Miranda, M.I. (2) 215)

Free radical
Oxidative stress; Microdialysis; Malondialdehyde; Lipid peroxidation; In vivo (Waterfall, A.H. (2) 17)

Functional brain imaging
Sleep; Positron emission tomography; Cerebral glucose metabolism; Method (Nofzinger, E.A. (2) 191)

G

Gene expression
Tachykinin; Receptor; Hypothalamus; Rat (Gautreau, A. (2) 133)

Glutathione
Astrocytes; Cumene hydroperoxide; Hydrogen peroxide; Pentose phosphate pathway; Tertiary butylhydroperoxide (Dringen, R. (2) 223)

Glycosphingolipid
Immunocytochemistry; Monoclonal antibody; Rat cerebellar culture (Kawashima, I. (2) 299)

G-protein
Olfaction; G-protein coupled receptor; Signal transduction (McClintock, T.S. (2) 59)

G-protein coupled receptor
Olfaction; G-protein; Signal transduction (McClintock, T.S. (2) 59)

Gustatory cortex
Conditioning taste aversion; Free-moving microdialysis; Neural transplantation; Acetylcholine (Miranda, M.I. (2) 215)

H

Hand cortical representation
Themes: Sensory systems*Topics*: Somatosensory cortex and thalamocortical relationshipsNeuromagnetism; Somatosensory evoked field; Interhemispheric difference; Normative data (Tecchio, F. (2) 306)

Hapten-anti-hapten
Digoxigenin; Digoxin; Blot analysis; Immunocytochemistry (Härtig, W. (2) 35)

Hippocampal neuron
Competitive RT-PCR; Neurite outgrowth; Neuron-specific growth-associated gene (Wang, W. (2) 199)

Hippocampus
Correlation analysis; Multielectrode array; Organotypic long-term culture; Paired pulse facilitation; Photolithography; Rat; Plasticity (Egert, U. (2) 229)

Hoechst 33342
Apoptosis; TUNEL; Axotomy (Whiteside, G. (2) 160)

H reflex
Recurrent inhibition; Renshaw cell; Spinal cord; L-Acetylcarnitine; Motor control (Mazzocchio, R. (2) 53)

HRP
Axonal tracing; Fluoro-Gold; Cholera toxin; BDA; V-VIP; Peroxidase; Neuroanatomy (Lanciego, J.L. (2) 323)

Human
Microneurography; Concentric needle electrode; Single unit recording; Spike discrimination; Template matching; Peripheral nerve (Hallin, R.G. (2) 120)

Huntington disease
Dynamic mutation; Polymerase chain reaction; CAG triplets (Čuljković, B. (2) 44)

Hydrogen peroxide
Astrocytes; Cumene hydroperoxide; Glutathione; Pentose phosphate pathway; Tertiary butylhydroperoxide (Dringen, R. (2) 223)

6-Hydroxydopamine
Parkinson's disease; Rotarod; Behavioural test (Rozas, G. (2) 75)

Hypothalamus
Gene expression; Tachykinin; Receptor; Rat (Gautreau, A. (2) 133)

I

Image software
Immunocytochemistry; Digital image analysis; Caudate-putamen; Immediate-early gene protein (Brown, H.E. (2) 264)

Immediate-early gene protein
Immunocytochemistry; Digital image analysis; Caudate-putamen; Image software (Brown, H.E. (2) 264)

Immunocytochemistry
Digoxigenin; Digoxin; Hapten-anti-hapten; Blot analysis (Härtig, W. (2) 35)

Microwave antigen retrieval; Neuropathology; Tau protein kinase I/glycogen synthase kinase-3β (Shiurba, R.A. (2) 109)

Digital image analysis; Caudate-putamen; Image software; Immediate-early gene protein (Brown, H.E. (2) 264)

Monoclonal antibody; Glycosphingolipid; Rat cerebellar culture (Kawashima, I. (2) 299)

Immunofluorescence
Confocal microscopy; Lectin; Mu opioid receptor; *N*-acetylgalactosamine; Perineuronal net (Bausch, S.B. (2) 286)

Immunohistochemistry
Neuroblastoma; Cholinergic differentiation; Retinoic acid; Electroporation (Hill, D.P. (2) 183)

Immunological assay
Cell-culture; ELISA (Parnas, D. (2) 333)

In situ hybridization
Northern blotting; Tumor necrosis factor-alpha; Interleukin-1 beta; Floating section; Digoxigenin (Meltzer, J.C. (2) 339)

Interhemispheric difference
Neuromagnetism; Somatosensory evoked field; Hand cortical representation; Normative data (Tecchio, F. (2) 306)

Interleukin-1 beta
In situ hybridization; Northern blotting; Tumor necrosis factor-alpha; Floating section; Digoxigenin (Meltzer, J.C. (2) 339)

In vivo
Oxidative stress; Microdialysis; Malondialdehyde; Free radical; Lipid peroxidation (Waterfall, A.H. (2) 17)

Isolation
Mitochondria; Neurons; Astrocytes; Respiration (Almeida, A. (2) 209)

L

Learned helplessness
Coping; Triadic design; Rat; Behavioral depression (Drugan, R.C. (2) 69)

Lectin
Confocal microscopy; Immunofluorescence; Mu opioid receptor; *N*-acetylgalactosamine; Perineuronal net (Bausch, S.B. (2) 286)

Lipid peroxidation
Oxidative stress; Microdialysis; Malondialdehyde; Free radical; In vivo (Waterfall, A.H. (2) 17)

M

Malondialdehyde
Oxidative stress; Microdialysis; Free radical; Lipid peroxidation; In vivo (Waterfall, A.H. (2) 17)

Method
Functional brain imaging; Sleep; Positron emission tomography; Cerebral glucose metabolism (Nofzinger, E.A. (2) 191)

Microdialysis
Oxidative stress; Malondialdehyde; Free radical; Lipid peroxidation; In vivo (Waterfall, A.H. (2) 17)

Microinjection
Technique; Nervous system; Brain; Freely moving animal (Prokopenko, V.F. (2) 31)

Microneurography
Concentric needle electrode; Single unit recording; Spike discrimination; Template matching; Peripheral nerve; Human (Hallin, R.G. (2) 120)

Microwave antigen retrieval
Immunocytochemistry; Neuropathology; Tau protein kinase I/glycogen synthase kinase-3β (Shiurba, R.A. (2) 109)

Mitochondria
Isolation; Neurons; Astrocytes; Respiration (Almeida, A. (2) 209)

Monoclonal antibody
Immunocytochemistry; Glycosphingolipid; Rat cerebellar culture (Kawashima, I. (2) 299)

Monodelphis domestica
Developmental neurobiology; Neurotransmitter; Neurotrophic factor; Cytoskeleton; Regeneration; Mouse (Luque, J.M. (2) 165)

Motor control
Recurrent inhibition; Renshaw cell; Spinal cord; H reflex; L-Acetylcarnitine (Mazzocchio, R. (2) 53)

Mouse
Developmental neurobiology; Neurotransmitter; Neurotrophic factor; Cytoskeleton; Regeneration; *Monodelphis domestica* (Luque, J.M. (2) 165)

mRNA
Serotonin; Tryptophan hydroxylase; Competitive RT-PCR; Thyroid C cell (Clark, M.S. (2) 273)

Multielectrode array
Correlation analysis; Hippocampus; Organotypic long-term culture; Paired pulse facilitation; Photolithography; Rat; Plasticity (Egert, U. (2) 229)

Multiple brain microdialysis
Stereotaxic surgery; Chronic implantation; Experimental brain surgery; Stereotaxic method (Parada, M.A. (2) 141)

Mu opioid receptor
Confocal microscopy; Lectin; Immunofluorescence; *N*-acetylgalactosamine; Perineuronal net (Bausch, S.B. (2) 286)

N

***N*-acetylgalactosamine**
Confocal microscopy; Lectin; Immunofluorescence; Mu opioid receptor; Perineuronal net (Bausch, S.B. (2) 286)

Nervous system
Microinjection; Technique; Brain; Freely moving animal (Prokopenko, V.F. (2) 31)

Neural transplantation
Conditioning taste aversion; Free-moving microdialysis; Gustatory cortex; Acetylcholine (Miranda, M.I. (2) 215)

Neurite outgrowth
Competitive RT-PCR; Hippocampal neuron; Neuron-specific growth-associated gene (Wang, W. (2) 199)

Neuroanatomy
Axonal tracing; Fluoro-Gold; Cholera toxin; BDA; HRP; V-VIP; Peroxidase (Lanciego, J.L. (2) 323)

Neuroblastoma
Cholinergic differentiation; Retinoic acid; Immunohistochemistry; Electroporation (Hill, D.P. (2) 183)

Neuronal density
Stereology; Unfolding method; Synaptic density; Visual cortex (Miki, T. (2) 9)

Neuronal viability assay
Confocal microscopy; Fluorescence; Neuroprotection (Monette, R. (2) 99)

Neurons
Mitochondria; Isolation; Astrocytes; Respiration (Almeida, A. (2) 209)

Neuron-specific growth-associated gene
Competitive RT-PCR; Neurite outgrowth; Hippocampal neuron (Wang, W. (2) 199)

Neuropathology
Immunocytochemistry; Microwave antigen retrieval; Tau protein kinase I/glycogen synthase kinase-3β (Shiurba, R.A. (2) 109)

Neuroprotection
Confocal microscopy; Fluorescence; Neuronal viability assay (Monette, R. (2) 99)

Neurotransmitter
Developmental neurobiology; Neurotrophic factor; Cytoskeleton; Regeneration; *Monodelphis domestica*; Mouse (Luque, J.M. (2) 165)

Neurotrophic factor
Developmental neurobiology; Neurotransmitter; Cytoskeleton; Regeneration; *Monodelphis domestica*; Mouse (Luque, J.M. (2) 165)

Nitrite
Brain; Constitutive nitric oxide synthase; Ozone (Weih, M.K. (2) 175)

Normative data
Themes: Sensory systems*Topics*: Somatosensory cortex and thalamocortical relationshipsNeuromagnetism; Somatosensory evoked field; Hand cortical representation; Interhemispheric difference (Tecchio, F. (2) 306)

Northern blotting
In situ hybridization; Tumor necrosis factor-alpha; Interleukin-1 beta; Floating section; Digoxigenin (Meltzer, J.C. (2) 339)

Nuclear extract
Synthetic oligonucleotide; Supershift assay; Electrophoretical mobility shift assay (Kako, K. (2) 243)

O

Olfaction
G-protein coupled receptor; G-protein; Signal transduction (McClintock, T.S. (2) 59)

Organotypic long-term culture
Correlation analysis; Hippocampus; Multielectrode array; Paired pulse facilitation; Photolithography; Rat; Plasticity (Egert, U. (2) 229)

Oxidative stress
Microdialysis; Malondialdehyde; Free radical; Lipid peroxidation; In vivo (Waterfall, A.H. (2) 17)

Ozone
Brain; Constitutive nitric oxide synthase; Nitrite (Weih, M.K. (2) 175)

P

Paired pulse facilitation
Correlation analysis; Hippocampus; Multielectrode array; Organotypic long-term culture; Photolithography; Rat; Plasticity (Egert, U. (2) 229)

Parkinson's disease
6-Hydroxydopamine; Rotarod; Behavioural test (Rozas, G. (2) 75)

Pentose phosphate pathway
Astrocytes; Cumene hydroperoxide; Glutathione; Hydrogen peroxide; Tertiary butylhydroperoxide (Dringen, R. (2) 223)

Perineuronal net
Confocal microscopy; Lectin; Immunofluorescence; Mu opioid receptor; *N*-acetylgalactosamine (Bausch, S.B. (2) 286)

Peripheral nerve
Microneurography; Concentric needle electrode; Single unit recording; Spike discrimination; Template matching; Human (Hallin, R.G. (2) 120)

Peroxidase
Axonal tracing; Fluoro-Gold; Cholera toxin; BDA; HRP; V-VIP; Neuroanatomy (Lanciego, J.L. (2) 323)

Photolithography
Correlation analysis; Hippocampus; Multielectrode array; Organotypic long-term culture; Paired pulse facilitation; Rat; Plasticity (Egert, U. (2) 229)

Plasticity
Correlation analysis; Hippocampus; Multielectrode array; Organotypic long-term culture; Paired pulse facilitation; Photolithography; Rat (Egert, U. (2) 229)

Polymerase chain reaction
Dynamic mutation; Huntington disease; CAG triplets (Čuljković, B. (2) 44)

Positron emission tomography
Functional brain imaging; Sleep; Cerebral glucose metabolism; Method (Nofzinger, E.A. (2) 191)

Pre-embedding
Benzidine dihydrochloride; Developing method; Diaminobenzidine; Double immunocytochemistry; Electron microscopy (Marcos, P. (2) 1)

R

Rat
Coping; Triadic design; Learned helplessness; Behavioral depression (Drugan, R.C. (2) 69)

Gene expression; Tachykinin; Receptor; Hypothalamus (Gautreau, A. (2) 133)

Correlation analysis; Hippocampus; Multielectrode array; Organotypic long-term culture; Paired pulse facilitation; Photolithography; Plasticity (Egert, U. (2) 229)

Amyloid precursor protein; Focal cerebral ischaemia; Axon (Yam, P.S. (2) 315)

Rat cerebellar culture
Immunocytochemistry; Monoclonal antibody; Glycosphingolipid (Kawashima, I. (2) 299)

Reaction time
Eye movement; Saccade; Express saccade; Antisaccade (Fischer, B. (2) 47)

Receptor
Gene expression; Tachykinin; Hypothalamus; Rat (Gautreau, A. (2) 133)

Recurrent inhibition
Renshaw cell; Spinal cord; H reflex; L-Acetylcarnitine; Motor control (Mazzocchio, R. (2) 53)

Regeneration
Developmental neurobiology; Neurotransmitter; Neurotrophic factor; Cytoskeleton; *Monodelphis domestica*; Mouse (Luque, J.M. (2) 165)

Renshaw cell
Recurrent inhibition; Spinal cord; H reflex; L-Acetylcarnitine; Motor control (Mazzocchio, R. (2) 53)

Respiration
Mitochondria; Isolation; Neurons; Astrocytes (Almeida, A. (2) 209)

Retinoic acid
Neuroblastoma; Cholinergic differentiation; Immunohistochemistry; Electroporation (Hill, D.P. (2) 183)

Rotarod
6-Hydroxydopamine; Parkinson's disease; Behavioural test (Rozas, G. (2) 75)

S

Saccade
Eye movement; Express saccade; Antisaccade; Reaction time (Fischer, B. (2) 47)

Serotonin
Tryptophan hydroxylase; mRNA; Competitive RT-PCR; Thyroid C cell (Clark, M.S. (2) 273)

Signal transduction
Olfaction; G-protein coupled receptor; G-protein (McClintock, T.S. (2) 59)

Single unit recording
Microneurography; Concentric needle electrode; Spike discrimination; Template matching; Peripheral nerve; Human (Hallin, R.G. (2) 120)

Sleep
Functional brain imaging; Positron emission tomography; Cerebral glucose metabolism; Method (Nofzinger, E.A. (2) 191)

Somatosensory evoked field
Neuromagnetism; Hand cortical representation; Interhemispheric difference; Normative data (Tecchio, F. (2) 306)

Spike discrimination
Microneurography; Concentric needle electrode; Single unit recording; Template matching; Peripheral nerve; Human (Hallin, R.G. (2) 120)

Spinal cord
Recurrent inhibition; Renshaw cell; H reflex; L-Acetylcarnitine; Motor control (Mazzocchio, R. (2) 53)

Stereology
Unfolding method; Neuronal density; Synaptic density; Visual cortex (Miki, T. (2) 9)

Stereotaxic method
Stereotaxic surgery; Multiple brain microdialysis; Chronic implantation; Experimental brain surgery (Parada, M.A. (2) 141)

Stereotaxic surgery
Multiple brain microdialysis; Chronic implantation; Experimental brain surgery; Stereotaxic method (Parada, M.A. (2) 141)

Supershift assay
Synthetic oligonucleotide; Nuclear extract; Electrophoretical mobility shift assay (Kako. K. (2) 243)

Synaptic density
Stereology; Unfolding method; Neuronal density; Visual cortex (Miki, T. (2) 9)

Synthetic oligonucleotide
Nuclear extract; Supershift assay; Electrophoretical mobility shift assay (Kako, K. (2) 243)

T

Tachykinin
Gene expression; Receptor; Hypothalamus; Rat (Gautreau, A. (2) 133)

Tau protein kinase I / glycogen synthase kinase-3β
Immunocytochemistry; Microwave antigen retrieval; Neuropathology (Shiurba, R.A. (2) 109)

Technique
Microinjection; Nervous system; Brain; Freely moving animal (Prokopenko, V.F. (2) 31)

Template matching
Microneurography; Concentric needle electrode; Single unit recording; Spike discrimination; Peripheral nerve; Human (Hallin, R.G. (2) 120)

Tertiary butylhydroperoxide
Astrocytes; Cumene hydroperoxide; Glutathione; Hydrogen peroxide; Pentose phosphate pathway (Dringen, R. (2) 223)

Neuromagnetism; Somatosensory evoked field; Hand cortical representation; Interhemispheric difference; Normative data (Tecchio, F. (2) 306)

Thyroid C cell
Serotonin; Tryptophan hydroxylase; mRNA; Competitive RT-PCR (Clark, M.S. (2) 273)

Triadic design
Coping; Rat; Learned helplessness; Behavioral depression (Drugan, R.C. (2) 69)

Tryptophan hydroxylase
Serotonin; mRNA; Competitive RT-PCR; Thyroid C cell (Clark, M.S. (2) 273)

Tumor necrosis factor-alpha
In situ hybridization; Northern blotting; Interleukin-1 beta; Floating section; Digoxigenin (Meltzer, J.C. (2) 339)

TUNEL
Apoptosis; Hoechst 33342; Axotomy (Whiteside, G. (2) 160)

U

Unfolding method
Stereology; Neuronal density; Synaptic density; Visual cortex (Miki, T. (2) 9)

V

V-VIP
Axonal tracing; Fluoro-Gold; Cholera toxin; BDA; HRP; Peroxidase; Neuroanatomy (Lanciego, J.L. (2) 323)

Visual cortex
Stereology; Unfolding method; Neuronal density; Synaptic density (Miki, T. (2) 9)

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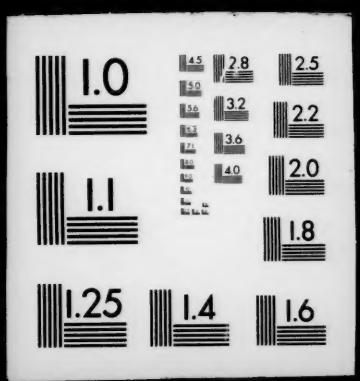
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